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WALLACES' FARMER AND Iowa Homestead

Good Farming *Clear Thinking* *Right Living*

Does Your Back Ache?

Borers and the big blow of October 10 put 10 to 12 bushels of corn per acre on the ground for Dean Baker, Greene county, Iowa. He had 140 acres to hand-glean.

"OH, my aching back!" That was a popular army expression during World War II. Corn growers know now how those GI's felt.

Iowa in mid-October seemed to be knee-deep in dropped ears. It wasn't that bad, of course. But still there were millions of bushels on the ground.

Feeder cattle and summer pigs were having a picnic. But they couldn't handle the whole job. And a lot of crop-share landlords had different ideas for solving the problem, anyway.

So farmers were faced with a whole new set of problems: What was the best way to salvage down-corn? Where could "pick-up" help be found? What wages did the gleaning job rate? How should salvaged corn be divided between landlord and tenant?

There was a problem for the future, too: What can be done to stop losses like this next year, and the next?

Turn to page 5 for a round-up story about Iowa's biggest corn harvesting problem in many a moon.

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Two Families On One Farm? ... Page 10

Tax Rules Still Up In Air ..... Page 18

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Dutch Oven: It's Handy Pan ... Page 36

Picking Up corn on the W. J. Eral farm. Pocahontas school girls, Patsy Johnson, Ellen Hudek, Donna Walstead, Sandra Lasher, Carol Telfer, helped.

NOVEMBER 5, 1949

IOWA'S LEADING FARM NEWSPAPER

More horsepower

You want more horsepower to carry bigger loads . . . to power your way out of tough spots . . . to speed-up deliveries. You get more horsepower in Ford Bonus Built Trucks. Two V-8 engines and a Six offer up to 145-horsepower.

*BONUS: "Something given in addition to what is usual or strictly due."—Webster.

More earning power

You want more earning power . . . low first cost and low running costs. You get more earning power in Ford Bonus Built Trucks. They're priced with the lowest, and they last longer. Fords wouldn't last if they didn't earn.

More lasting power

You want more lasting power . . . mile after mile, year after year of reliable service. You get more lasting power in Ford Trucks because they're Bonus Built. You get extra strength for longer wear. You get power in reserve to take the strain out of ordinary work.

Ford Trucks Cost Less because

FORD TRUCKS LAST LONGER

Using latest registration data on 6,106,000 trucks, life insurance experts prove Ford Trucks last longer!

FORD DEALERS OF IOWA

Let WINTER WINDS HOWL!

SAVE UP TO 40% On FUEL

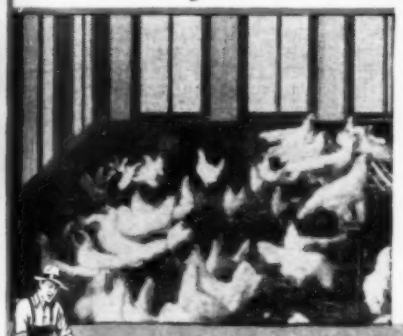
KEEP OUT COLD - HOLD IN HEAT

Use Warp's Genuine TOP QUALITY WINDOW MATERIALS

ON STORM DOORS and WINDOWS - FOR ENCLOSING PORCHES

They'll Keep You "Snug as a Bug in a Rug"

Cheaper than Glass - Cut with Shears Tack On



LET IN SUNSHINE VITAMIN D

5 Eggs Every 6 Days (86% Egg Production) All Winter Long

A group of Hiline hens, kept under a Warp Brothers Window Material from September to April, averaged 5 eggs every 6 days . . . all winter long. That's 86% egg production . . . a near record . . . in an unheated hen house, too.

These hens were fed a prepared farm feed (evidently lacking in Vitamin D) and were never outdoors. They depended upon the sunlight through a Warp's Window Material for needed Sunshine Vitamin D.

Warp Brothers sincerely believe that their Window Materials offer the best and cheapest way to give your laying hens necessary Vitamin D for producing eggs . . . and at the same time help keep your hens warm, dry, and comfortable.

DON'T WAIT!

PUT ONE OF WARP'S WINDOW MATERIALS IN YOUR LAYING HOUSE RIGHT AWAY!

Warp's Printed on The Edge Means TOP QUALITY WINDOW MATERIALS

Warp Brothers are continuously Testing their Products in Actual Farm Use, so as to Give You the BEST that Money can buy. For Long Years of Satisfactory Service, be Sure You See the Name "Warp's" printed on the Edge of the Window Material you select. To be Sure you get the Right Product at the Right Price take this Ad to your Dealer.

SOLD BY RELIABLE HARDWARE AND LUMBER DEALERS EVERYWHERE

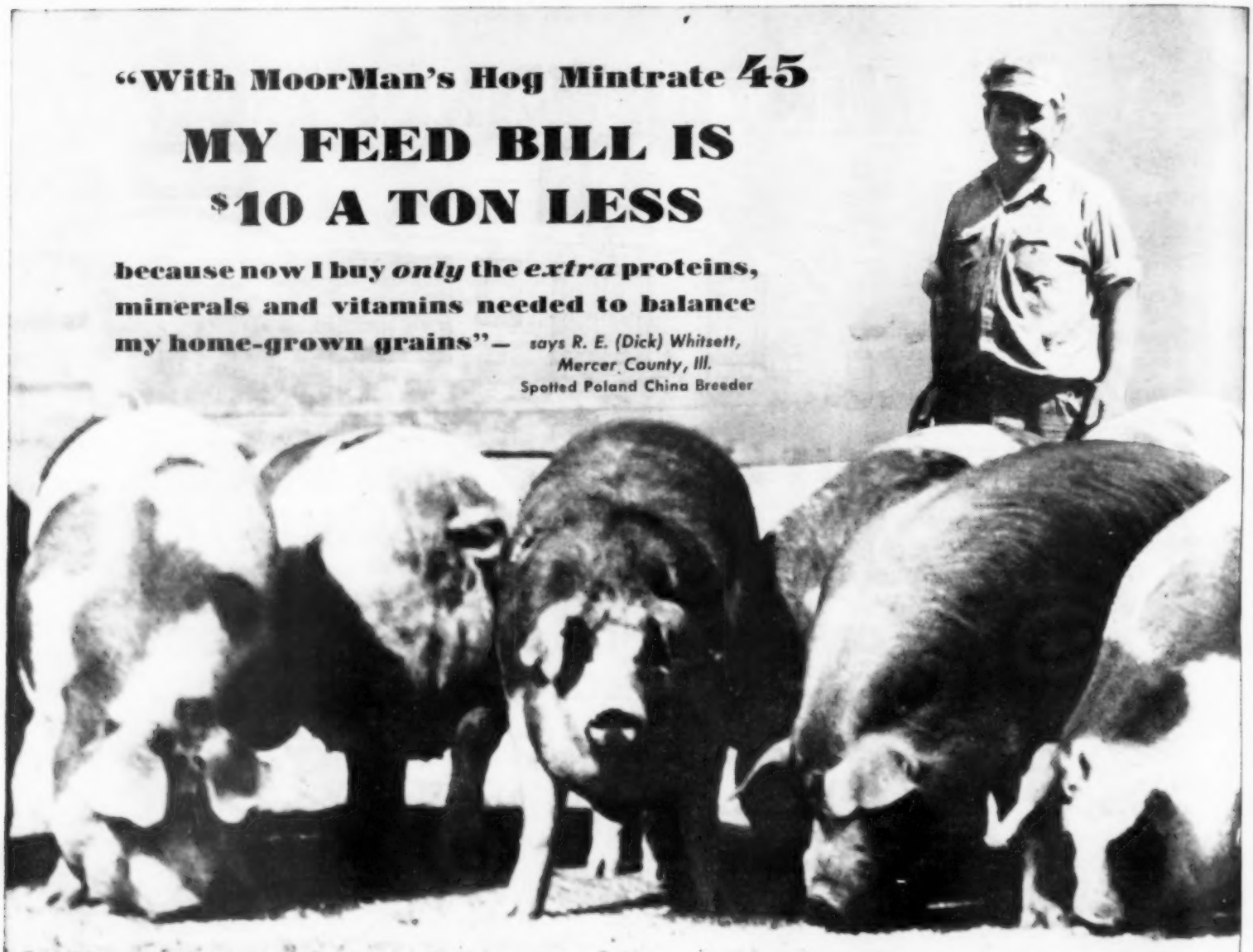
WARP BROS. 25 YEARS OF PIONEERING LEADERSHIP IN PRODUCING FLEXIBLE WINDOW MATERIALS **CHICAGO, ILL.**

*T. M. Reg. WARP BROS. Sponsor the WLS National Barn Dance Every Saturday Night at 7:30 p.m. (C.S.T.) — TUNE IN! © H. Warp, 1949

"With MoorMan's Hog Mintrate 45

MY FEED BILL IS $10 A TON LESS

because now I buy *only* the *extra* proteins, minerals and vitamins needed to balance my home-grown grains"— *says R. E. (Dick) Whitsett, Mercer County, Ill.*
Spotted Poland China Breeder



"Can't afford to pay for grain or grain by-products in concentrates," says pure bred hog breeder

"I figure I've got to follow a 3-way program of good breeding, good care and good feeding to make good profits with hogs," says Dick Whitsett, who is rapidly carving a name for himself as one of Illinois' successful Spotted Poland China breeders. "No two parts of this program 'll pay off.

"And feeding is about the only place where I can really cut down on costs. We raise our own grain and buy concentrates. Now, we can't afford to pay for filler in concentrates, so we buy only the proteins, minerals and vitamins we need. We buy MoorMan's Hog Mintrate 45.

"I've found that 100 pounds of Hog Mintrate will balance as much grain as 300 pounds of other concentrates I've used. Cuts my feed bill $10 a ton, too, and since I've been feeding the MoorMan Way, I've never raised bigger litters and thriftier, faster growing pigs. My last batch of hogs averaged 189 pounds at 4½ months of age."

Extra Rich in NATURAL APF

Hog Mintrate is *extra rich* in 3 packing house and 2 sea food proteins—all natural carriers of *true* APF. It also contains 1 vegetable protein, 14 mineral ingredients, (including each mineral—both base and trace—hogs are known to need), and 3 vitamins: niacin, to help prevent and overcome nutritional enteritis, riboflavin, the "growth" vitamin, and the sunshine vitamin D, for winter feeding. Ask your MoorMan Man about MoorMan's famous Mintrates, or write Moorman Mfg. Co., Dept. S-11, Quincy, Ill.

FOR GOOD RESULTS WE FEED MoorMan's MINERALS AND PROTEIN CONCENTRATES

MoorMan's
(Since 1885)

MAKERS OF PROTEIN AND MINERAL CONCENTRATES FARMERS NEED, BUT CANNOT RAISE OR PROCESS ON THE FARM

WALLACES' FARMER AND IOWA HOMESTEAD, November 5, 1949 (Vol. 74, No. 21). Published first and third Saturdays of each month, by the James M. Pierce Corporation, Des Moines, Iowa. Subscription price, one year for One Dollar. Entered as second-class matter October 19, 1929, at the post office in Des Moines, Iowa, under the Act of March 3, 1879. Copyright, 1949, by the James M. Pierce Corporation.

Neighbors Myron Nelson, John E. Anderson and Oscar Nelson pick up corn together in Pocahontas county, Iowa. The three have a total of 120 acres of corn between them. Myron figures that there are about nine bushels of corn per acre on the ground.

Lost Corn...Tired Backs

Dropped Ears Gave Iowa Farmers Another Rush Job To Do Before Winter

By LEE THOMPSON

"IT ISN'T corn until it's in the crib," old-timers said. And proof of the saying lay on the ground all over Iowa.

A strong, gusty wind on October 10 blew millions of bushels of corn off the stalks. Some farmers lost up to 40 per cent of their corn. Per-acre losses ran from three to 30 bushels.

Few Iowa farmers could afford losses like that. With livestock, with hired help, and sometimes with only part-time help from their wives, they began a statewide salvage operation.

A lot of farmers bought feeder cattle and hogs to glean the fields. Feeder pigs at county sale barns brought spirited bidding. In-shipments of feeder cattle set new records.

But farmers with crop-share leases had to get the landlord's share out of the field. Other farmers weren't equipped to handle more hogs and cattle. They had to pick the corn up somehow.

As you drove thru the country the next week, you could see them beginning. In Greene county, Dean Baker had started thru his 140 acres. The mechanical picker had got about 30 bushels per acre.

"There are still 10 to 12 bushels an acre on the ground. We can't leave it," he said.

What hampered Baker was that, like most Iowa farmers, he no longer had a team of horses. He was going down the rows, tossing ears into piles 30 to 40 feet apart. Later, he'd pick up the piles.

"You can't blame the landlords," Baker said. "They want to get what they have coming, just like everybody else. My landlord was fair, offered to pay for half the help to pick up the corn, or to split it 60-40 if I pick it up."

Landlords generally recognized the extra labor needed to salvage the down-corn, and made concessions to tenants. The offer made by Baker's landlord was typical.

Reaching a settlement with the landlord on the down-corn was only one of the problems. Farmers also had to hire help to pick up the ears. Often, they did not have to look any farther than their local high school.

Schools like Plymouth, in Cerro Gordo county; Lake Mills, in Winnebago; Swea City, in Kossuth, and Pocahontas, in Pocahontas county, partially closed down or shifted schedules so students could attend classes and still pick up corn.

In the Pocahontas schools, seventh and eighth graders, as well as high school students, picked corn. To make sure that students' education wouldn't be slighted, classes started one full class period earlier in the morning. And the noon period was shortened. School was out at 2 p. m.

The vocation agriculture instructor, Verne Knecht, estimated that about 90 per cent of the students who didn't have other jobs worked in the corn fields.

Pay for picking corn was the same as for detasseling corn, 65 cents per hour, Knecht said. Some, he said, were getting 40 cents per bushel.

All over Iowa, settling on wages for picking down-corn or for straight husking was complicated by the variation in amount of corn on the ground. The corn borer infestation varied. Some farmers had sprayed for borers. The gusty wind had hit some fields harder than others.

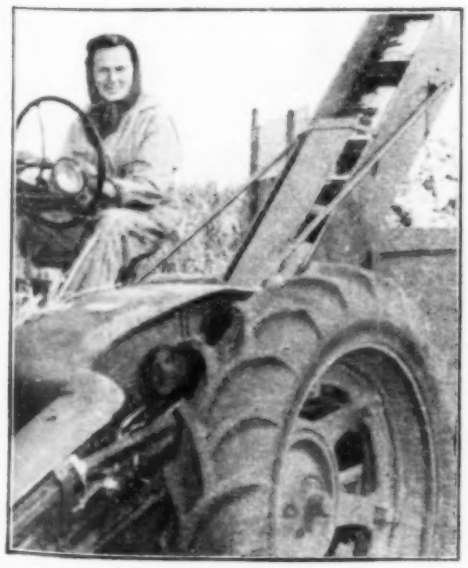
Most common figure agreed on for straight husking was 15 cents a bushel. For picking up corn after a mechanical picker, wages for students ran from 65 to 75 cents per hour. But men often received $1 per hour.

On a bushel basis, pay ran from 25 to 50 cents per bushel, depending on the amount of corn on the ground. Some farmers offered half the picked-up corn.

What are Iowa farmers going to do to prevent another big dropped-ear loss next year? Probably most of them haven't decided. There's a whole winter ahead to think about new practices. But in Greene county, young Robert Schilling is already planning to shift some acreage to beans.

In Pocahontas county, another young farmer, Richard Vosika, thought he would plant early next year, then spray for corn borers, if necessary.

Other farmers were thinking about more fall pigs to clean up corn. Some thought about picking early and using artificial heat for drying. And all were looking over fields to see which hybrids held ears the best.



Wives helped bring in corn, too. Mrs. E. R. Gonder, Greene county, Iowa, runs picker, while Mr. Gonder is building cribs.

In Two and one-half hours' time, these five school girls had nearly filled the big flared wagon box above. The girls are from Pocahontas, Iowa. The picture was taken on the farm of W. J. Eral, in Pocahontas county, Iowa. The son, Adrian, is on the tractor.

Editorials

New Farm Law May Be A Fizzle

WHAT does the new farm law do for you? If you're a corn producer, it assures you a corn loan in 1950 at about the same rate as the one in effect this year.

If you sell hogs—or other livestock—the new law doesn't mean much. The law gives the secretary of agriculture the right to promise hog supports up to $17 per hundred next year. But it gives him little power to make that support program work.

The secretary can not use production payments. All that he can do is to buy and store. That means waste of money, waste of food, and a lot of irritated customers.

While the new law tries mainly to take care of wheat, cotton and tobacco farmers, it doesn't do much of a job there, either. Liberal support prices make it sure that supplies will pile up. Then how do you unload? The law doesn't say.

For the most part, the new farm law leaves most of the tough questions unanswered. That's why it will be necessary for congress to write a better one in 1950.

Corn On Ground

Bill Booten, Mahaska county, Iowa, is shown riding a picker in corn estimated at 50 bushels to the acre. But 25 bushels are on the ground.

Most Iowa corn had better luck than this. Some had worse. How was yours?

To Produce Unhappy Grown-Ups

HOW do you raise a child with a healthy mind? Parents ask about that more than they used to.

Some children grow up to be worriers, nervous, jumpy, irritable and unhappy. How do you avoid that?

There isn't any sure-fire prescription, but Dr. George H. Preston, in "The Substance of Mental Health," says a child needs three things: (1) Affection; (2) praise; (3) "the sense of freedom from rapid, unpredictable change."

Preston says a lot of problem children get that way because they don't get enough affection, or enough praise, and because they can't figure out where they stand.

What he means by that last point can be illustrated by some animal experiments. Take a white rat. Teach him that when he goes to the door on the right and pushes, he'll get some food. Teach him also that when he goes to the door on the left and pushes, he'll get an electric shock.

Now, when he has learned all this, change things around. Fix it so he'll get food on the left, and a shock on the right. Then shift it back the other way—food on the right, shock on the left.

Pretty soon, the poor rat won't know what to expect. He'll just stand there, shaking, and won't dare do anything. Or he may rush at each door frantically.

That's about what happens to some children. If the rules change, Johnny doesn't know where he stands. Suppose throwing a snowball at Mrs. Jones one day gets him a whipping, and the next draws the comment: "She's an old sourpuss, anyway. A snowball won't hurt her." Johnny doesn't know what to count on. And that wears him down.

Check up in your own family and your own neighborhood. Could the children you know use more affection, more praise, more certainty as to what is going to happen to them—either good or bad—when they do certain things?

Save Taxes--And Blood

Navy Row Upsets War Plans; But Who Plans For Peace?

IF YOU pay taxes, you'd better pay some attention to the row at Washington over super-carriers and B-36's. It could save you money—or could lose you some.

What President Truman and most of congress have been trying to do is this: Get army, navy and air force to work together for better defense at lower cost.

Farmers should remember the comment of the Hoover commission on the armed services. The services spend more and waste more than all the rest of the government put together.

TRUMAN, Secretary Johnson and congress have been trimming down the navy. But, for 1951, the navy will have:

Six large carriers, 8 light carriers, 12 cruisers, 140 destroyers, 70 submarines, 9 large carrier air groups, 7 light carrier air groups, 20 patrol squadrons, 12 marine squadrons, 460,000 military personnel, 241,000 naval personnel, 8,000 operating aircraft.

That's still quite a navy. What enemy will it fight? The German navy is sunk. The Japanese navy is sunk.

The Russians have only a few surface ships and lots of submarines. In a war with Russia, the navy would need to guard transports and fight submarines. To do that job, the navy should be differently organized—and smaller.

FOR World War III, if it comes, we'll need a strong air force, a strong army and a much smaller navy than in World War II.

Truman and Johnson have taken one short step in that direction, and the admirals are squawking.

But if the admirals have forgotten that the German and Japanese navies no longer exist, and that our navy must fight in a new kind of war, the air force hasn't yet admitted to itself that the Russians have the atomic bomb.

BEFORE Russia had the bomb, it made sense to concentrate on the B-36, and to plan for a quick attack with atomic bombs at long range. Now that Russia has the bomb, it is possible that each side may be afraid to use it. The next war—if it comes—may be settled by the army and the tactical air force.

The air force, like the navy, needs to reconsider what its job may be in World War III.

The big risk to the tax-payer is that the navy will scare congress into giving it back its super-carriers—and that the air force will scare congress into letting it continue to buy more B-36's.

WHILE we're trying to get the army, navy and air force in shape, the United States should also be working to get peace treaties which would permit some degree of international disarmament.

So far, we are spending a lot more time, energy and money to prepare for World War III than to head it off.

Now that the next war may see atomic bombs dropping all over the world—on us as well as on Russia—we'd better get to work seriously to see what can be done to keep the first shot from being fired.

One Fall Equals 24 Lost Days

WATCH out for machinery accidents, but remember that falls cause more non-fatal accidents on the farm than bulls or machines. So a survey by the Bureau of Agricultural Economics shows.

Here's the way the three leading causes scored in 2,000 accidents, giving the numbers of accidents and the days lost from work:

Cause—	Number	Days Lost
Falls	476	24
Machinery	248	20
Animals	233	19

Men have three times as many accidents as women. And men in the age group of 25-44 years have the most accidents.

These are the accidents that don't kill you. But 18,000 farm people have the other kind of accident — the kind that winds up in a funeral, not in a hospital.

What causes fatal accidents? The same list, with auto smash-ups added.

How Many Spring Pigs In 1950?

HAVE you made up your mind yet about the number of sows and gilts you want bred for 1950 spring litters?

This is always a puzzle. This year, the puzzle is tougher than usual.

What you'd like to know are answers to these questions:

1. What will other farmers do? Will the 1950 spring pig crop be bigger than that of 1949? And, if bigger, how much?

2. What will business and pay rolls be like in the winter of 1950-51?

3. What will congress do in 1950 about hog supports?

Wallaces' Farmer and Iowa Homestead doesn't know the answers, either. But here are some hunches on each point:

1. The spring pig crop of 1950 will probably be bigger than that of 1949. The corn-hog ratio is still favorable to hogs. Last spring, we had a 15 per cent increase over the year before. Increase next spring may not be so great.

2. Once the coal and steel strikes are settled, we may level out industrial production, pay rolls, etc., and have a good year in 1950. The government is spending more than it is taking in. That's an inflationary influence.

3. Congress will take another look at the farm program in 1950, but it's hard to guess what it will do. If production payments are voted to back up hog supports, things will look brighter for hog producers in the winter of 1950-51. But don't count on it.

If the spring pig crop of 1950 shows another increase, if pay rolls stay at about the 1949 level, and if congress takes no new action on farm programs, 1950 spring pigs will probably sell for less than the pigs going to market now.

How much less? That's the sticker.

But a farmer who can buy free corn for 90 cents or less, and can make a profit by selling hogs at $12, may be tempted to increase pig production for 1950.

Which Gilts to pick is the problem of Harold Moran, Carroll county, Iowa. He wants 14 out of this lot for litters next spring. He'll raise more pigs next year; thinks cheap corn this fall makes pig raising better business. See comment on this point in editorial at left.

Odds *and* Ends

"I'M PULLING my hogs out of the fattening pen and putting them in the corn field." How many farmers have said this in recent weeks?

HOG marketing was cut down in many sections in late October on this account. These hogs will come to market later and at heavier weights because they are being used to harvest the downcorn.

PRICE of "free corn" is dropping, as everybody expected. Farmers who have to sell new corn are getting 40 cents more out of the government loan than out of the market.

KEEP your eye on the strike situation. What happens in steel and coal strikes will have a lot to do with what happens to hog prices.

CONSUMERS ate 75 pounds of pork per person in 1946, and paid a good price for hogs. In 1932, they ate 70 pounds per person, and paid a very poor price for hogs. Difference: Size of pay checks consumers were taking home.

HALF the butter in cold storage belongs to the government. And there's a nine year's supply of dried eggs in federal hands.

DR. E. G. Nourse, who was at Iowa State College years ago, has resigned as head of the president's economic council. Nourse objected to Republican tax cuts, to Democratic spending on arms, on other projects.

NOURSE said: It's all right for the government to run into debt in a depression year, provided it builds up surpluses in a prosperous year. These are prosperous years. Let's save money now.

COTTON growers are being asked to take a 20 per cent cut in acreage in 1950. They'll vote on marketing quotas on December 15.

NOBEL peace prize went this year to John Boyd Orr, former head of the international Food and Agriculture Organization (FAO). Orr says one way to keep peace is to see that people everywhere get enough to eat.

ADVERTISING to sell greater use of pork to consumers is being pushed by the American Meat Institute in December and January.

"FORWARD pricing" is provided by the new farm law. The secretary of agriculture can announce, in advance of planting, what the support price will be after harvest.

FALL pig crop looks good, but the total production in Iowa may still run a little under the 10 per cent increase farmers predicted in June.

Song of the Lazy Farmer

THE sky is gray, the trees are bare, and there's a crispness in the air remindin' us 'most ev'ry day another winter's on the way. This time of year makes some folks sad, but as for me I'm always glad when days start gettin' shorter and each morn finds frost upon the land. It means there isn't much to do, that almost all the field work's thru; the colder nights make sleepin' great and I can stay in bed 'til late. But best of all, November's when the pancake season starts again, and nothin' that Mirandy makes is finer than her buckwheat cakes.

Now there is something really good. I never have quite understood why poets and philosophers have never written song or verse to put in words the mellow mood of mankind's finest type of food. What cook has ever made a dish that can come close to matchin' this: A stack of cakes, of golden brown, with melted butter running down to join a maple nectar pool, no man alive except a fool could think of stoppin' until he has just enough strength left, by gee, to drag himself to couch or chair and doze the morning out right there.

Nice Bunch of September pigs on Elmer Meyer farm, Cedar county, Iowa. He had a 9½ average on spring pigs, has just under 9 on fall litters. Pigs are on a good alfalfa pasture, will stay there until a freeze kills the alfalfa.

Pigs Need Good Care

Fall Litters Face Tough Sledding Unless They Get Proper Housing, Right Ration

By WALLY INMAN

"THESE pigs will stay on this alfalfa as long as there is green alfalfa for them to eat," Elmer Meyer, Cedar county, Iowa, said, pointing to his September fall pigs.

Fall pigs face tougher going than spring pigs, which can have good pasture almost from birth to death. So Meyer wants his fall pigs to store up all the vitamins they can in preparation for the winter.

"One thing at Swine Feeders Day at Ames amazed me," Meyer went on. "That was the way APF helped even those pigs that were on alfalfa."

So you have to feed fall pigs right. You may not push them quite as hard as you do spring pigs. But they need a sound ration, plenty of supplements, minerals and vitamins.

Meyer castrates his fall pigs at about one month, then vaccinates about 10 days before weaning.

"I always worm fall pigs," he says. "I may or may not worm spring pigs, but I always worm fall pigs about two weeks after weaning."

Delbert Wiese, another Cedar county pork producer, doesn't push his fall pigs as hard as spring litters. He gets spring pigs to market in about 5½ months, takes a month longer with fall pigs.

That's partly because he uses them to glean corn fields. While doing that, he provides plenty of water and protein.

When they have the best of what's in the fields—and that will be a lot of corn this year—he brings the fall pigs in. Brood sows finish the gleaning.

Wiese's fall pigs then go on full feed, with shelled corn, supplement and plenty of third-cutting, bright alfalfa hay as the mainstays of their ration.

"Main thing to watch with fall pigs is housing," Wiese says. "They must have a dry bed. And fresh air, without drafts."

Right after good housing, a good start on clean ground in a good pasture comes next for fall pigs, Wiese thinks.

Like most fall pig raisers, Wiese and Meyer use fall gilts for fall litters. Then, in the spring, these gilts have their second litters.

"If you were raising May or June pigs, I don't think the difference between gilts and sows would be so important. But for early spring pigs I certainly prefer sows," Meyer explains.

Roy Joslin, who, like Meyer and Wiese, is a Cedar county Master Swine Producer, sold his February pigs in August, has 300 May pigs, 15 litters of September pigs and has 20 sows bred for December pigs.

He likes to get all his pigs away to a fast start. That involves at least two things. One is a lot of milk from the mothers. The other is the feed the pigs eat. So he uses lots of alfalfa pasture or alfalfa meal for the sows, plus a good ration.

And Joslin starts the pigs on cracked corn and rolled oats in a creep. He lets them have all they want of this mixture until they weigh 50 pounds or better. Then they do without rolled oats.

Minerals and the right supplement are especially important for fall pigs. They can't fall back on green legume pasture.

So don't skimp pigs. Use a good mixed supplement that contains all the necessary ingredients. Provide salt plus mineral mixture. Add high-quality, bright alfalfa meal or hay when the pigs go into the dry lot.

Give them plenty of water—fresh, clean and without ice.

House them so they can get out in the sun on winter days. Keep their bedding dry. Give them enough room so they don't have to pile up. They'll keep their shed cleaner if there isn't too much room.

Put in a false door to stop drafts. For a cheap insulating job, run a roll of slat cribbing around the inside of the shed. Nail it to the studding. Fill the space between the studding and the wall with straw, ground corn cobs, chopped hay or shredded fodder.

Lice and mange can be a problem with fall pigs. The new improved BHC, called lindane, offers an easy answer there.

That's about the way experienced fall pig raisers do the job. Funny thing about it: Most men who follow the two-litter system like the fall pigs best.

They do need more attention. But you have time to give it to them. And next spring it's nice to have something coming in besides the cream check and the egg money.

Far Right: Roy Joslin, of Cedar county, Iowa, lifts one of the slot ventilators on his insulated farrowing house. Joslin says they really work: he wouldn't build a hog house without them. He has sows farrowing three and four times every year, so the house is used most of the time.

Right: Don Doolittle, who is farming in partnership with his father, Fred, looks in a creep at a few of the 23 litters of August pigs they have. They breed fall gilts for fall farrowing, use them as sows for spring litters. The sows seem to farrow bigger and stronger spring litters.

Check chimney and stovepipes, as Mrs. Richard Davis, of Poweshiek county, Iowa, is doing. You don't want the pipes to come down some night when you're gone. Chimney should be cleaned. Flue stops should be tight.

Lightning is major known cause of farm fires in last four years. Mr. and Mrs. Everett Fee, Marion county, Iowa, check lightning ground on their house.

Fight Fire Now... It's Too Late

When You Smell Smoke

HAVE you ever carried a child out of a flaming farmhouse? Have you ever watched a barn burn to the ground, taking ten years of your savings with it? Well, other farmers have. Better make sure the next one isn't you.

It's easy to fight fires before they start. But, on most farms, once a fire gets started, it goes until it runs out of fuel. If you don't like to battle flames, fumes and smoke, here are some hazards to check:

1. **No Lightning Protection**—Lightning can strike any time of the day, whether you are awake or asleep, whether you are at home or away.

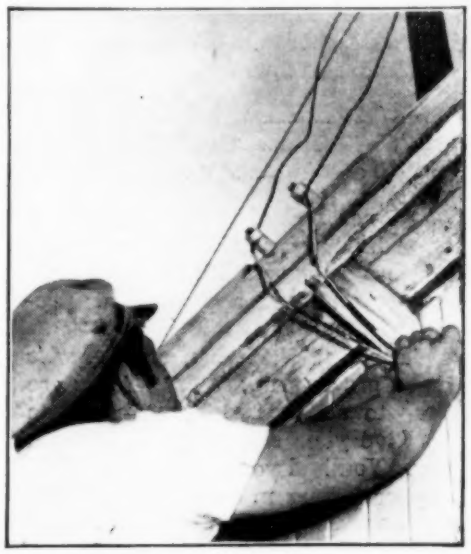
2. **Chimneys and Flues**—The chimneys should be clean. Flue-stops covering unused chimney holes should be of metal, and should fit securely. If your chimney is old, check the mortar. Cracks where mortar has crumbled away let sparks into walls or attics.

3. **Wiring**—Get rid of frayed electric cords. Use proper size fuses. Don't let anyone overload circuits.

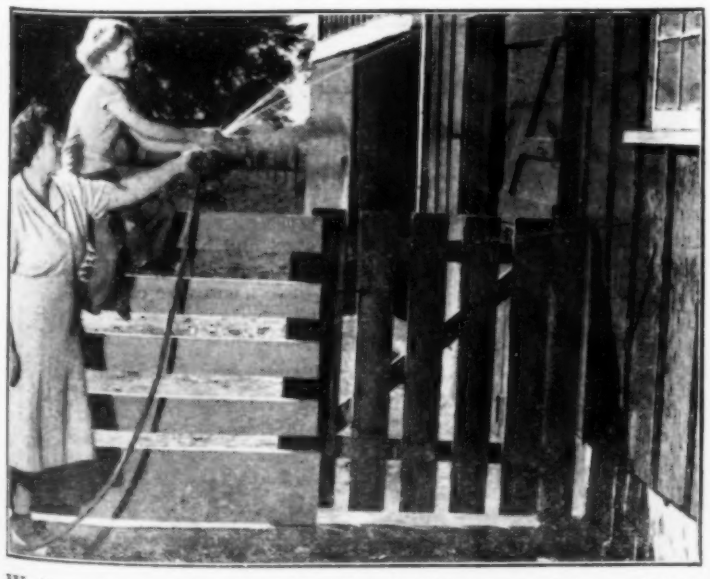
4. **Rubbish**—Papers, boxes, old furniture and discarded clothes make a good blaze. Make sure they burn inside your stove, not in a corner of the basement.

How about protection? Keep fire extinguishers handy—on the corn picker, in the house, in the garage. And see that they are kept full.

Also see that every member of your family knows the phone number or ring of the nearest fire department.



Watch old wiring. Cliff Handsaker, Story county, Iowa, checks wiring to hen house. Also, see that you have right size fuses.



Water systems fight fires. Mrs. Arnold Riese and Marlene, of Story county, Iowa, show how they could spray water on farm fire.

Fire extinguisher carried on combine and other heavy equipment is demonstrated by Harvey Hansen, Boone county, Iowa, farmer.

Two Families On One Farm?

ON MANY a corn belt farm these days, a second house—usually smaller—is going up across the road from the old farm house.

Sometimes, John Jones, Jr.—four years back from the service—is living in it.

Sometimes, John Jones, Sr., and his wife have moved into it to let Junior and his growing family occupy the bigger house.

That makes two families on one farm.

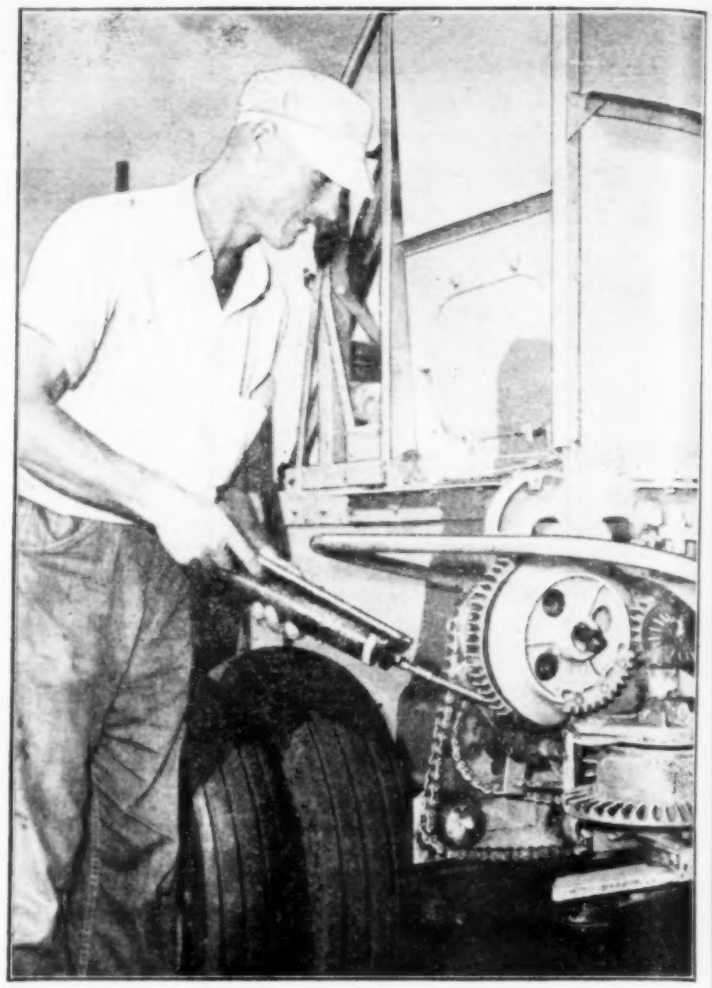
How are these two families getting along? The Wallace-Homestead Poll put the following question up to several hundred farm people, representing a cross-section of Iowa farmers:

"John Jones and his wife, both in the sixties, are planning to retire. They have a son who can run the farm they own. What arrangements should they make?"

Over half the folks said John Jones had better move to town and let the young folks alone.

One-third said it was all right to stay on the farm, but the two families should live apart.

Only 7 per cent thought it was all right to stay on the farm and share the home with the son.



Mr. and Mrs. Jones should stay on farm, says Dallas Swan, Jefferson county, Iowa. But the two families will get along better if they live in separate houses.

WHAT farmers say about this subject depends partly on how old they are. Here's how farm people of different age groups voted approvingly on having the old folks move to town:

Age 20-29	62%
Age 30-49	58%
Age 50 and up	46%

Only 25 per cent of the folks under 30 approved living on the same farm, even with separate houses. But 39 per cent of those 50 and over approved this program.

One farmer in Buchanan county, who has a boy growing up, said: "If you are planning to retire, by all means go to town. Give your son a chance to farm his way. You had your chance."

An older farmer in Jones county said: "If the Joneses prefer the country, let them retire there, but not on the same farm with the son. We made our mistakes when we were young. Let them make theirs and remember the lesson."

A farm woman in Johnson county suggested: "The old folks had better move to town. It will make better workers out of the young people if they go it alone. Young and older folks don't see alike. And there are so many new ideas the older folks don't want to try. On the same farm is usually too close."

Following are other comments:

"I'm sure going to leave the farm when it comes time to retire, and let the other fellow run it."—Black Hawk County.

"The old folks should live where they can't see and hear troubles of the son and wife, or see where they go and what they do."

"If we had some kind of social security for farmers, maybe the old folks wouldn't hold out so hard for staying on the farm, and would be more ready to let the younger generation take a swing at the old home place."—Appanoose County.

"One rule can't fit every family. Except I'd say for sure that each family should have separate living quarters."—Allamakee County.

"Families should live by themselves, but it is not always easy or right to move to town. You have worked hard to have a place, and your heart is in it. Maybe if you left so your son could live on it, he would not do well at all."—Clinton County.

"I don't believe in letting the son take over the farm. Put him out and let him buy and pay for his own farm. Then he will know the value of a dollar."—Lucas County.

"What kind of a set-up would work on the old home place would depend on what kind of folks were in the dicker. The old folks retiring should really let go, and the younger folks should be willing to prove they can make a go of it."—Appanoose County.

"I definitely feel that the older couple should not live where they can see and know all that the young folks are doing. No two families do things just alike, and sometimes these different ways lead to misunderstandings. I have seen a lot of trouble come from that."—Black Hawk County.

The Wallace-Homestead Poll didn't ask the really tough question in this field. That question would be: "Suppose you're 55 and still vigorous, and your boy is 30 and ready to run the place himself. How do you manage to get along on the same farm? Or should you try?"

What do you think about this? Short letters to the Voice of the Farm will be welcomed.

Separate living quarters should be provided for each family, according to Mrs. John Hanson, of Story county, Iowa.

WHAT DO YOU THINK?

THE WALLACE-HOMESTEAD POLL ASKED:

"John Jones and his wife, both in their sixties, are planning to retire. They have a son who can run the farm which they own. What arrangements should they make?"

1. **They should move to town and leave the son on the farm** 54%
2. **They should live on the farm and share the home with the son** 7%
3. **They should stay on the farm, but have separate living quarters** 31%
4. **Undecided** 8%

The Tank Truck

Prize-winning 4-H Club projects! Mr. Gloyd, Jimmy, left, and Joe, right, show off the boys' Angus steers. Mr. Gloyd has been using Conoco Products for 28 years!

Mules Delivered His Conoco!

Farming on the Gloyd and Stump farm, 7 miles north of Thermopolis, Wyo., is a family affair. The farm is operated by 2 brothers-in-law—H. S. Gloyd and H. J. Stump. In addition, they have as "assistants" Mr. Gloyd's 12-year-old son, Joe, and his nephew, Jimmy Hannon, also 12.

The boys are very active in 4-H work and are raising Angus steers this year, hoping to win more prizes like the grand champion and second awards they've won.

Mr. Gloyd, who is president of the Farm Bureau, has been using Conoco Products for 28 years—he can recall when deliveries were made with mules. "Using Conoco Products 28 years tells exactly what we think of them," he says.

"We seldom have a repair bill—that is why we stick to Conoco Nth Motor Oil. Service, too, as well as the product, has always been excellent."

When a farmer of Mr. Gloyd's standing uses Conoco Products so long, you can be sure they are dependable—and economical. Better try some today. Call your Conoco Agent—he's ready, always, to give you the kind of service Mr. Gloyd and so many other farmers call "excellent."

Beef Roast

...by Mrs. Mary Gaswick, R. 1, Saltillo, Tex.

Take a good roast with plenty of fat—not a rib roast, just firm all through. Take a can of pimento pepper, ¼ cup of vinegar, 9 tablespoons prepared mustard, 1 teaspoon onion juice or onion ground, salt to taste. Cream pimento fine with a fork, mix mustard, vinegar, salt, onion juice or finely ground onion in with pimento. Mix enough flour in the ingredients to make a paste that is thick enough that it won't run off of roast. Spread a layer of paste over the roast. Set in oven, let brown. When brown take out of stove, put another layer of paste on, set back to brown. Keep this up until paste is gone and roast is brown all over and roast is tender. Keep just enough water in roaster to keep roast from burning. Take liquid and make gravy.

Send your favorite recipes to Mrs. Annie Lee Wheeler, Conoco Cafeteria, Ponca City, Oklahoma. A $7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.

FARM KITCHEN

"Lower Cost-Longer Use"

"I changed to Conoco oils and greases because the premium grade oil I was using increased in price," reports Ralph H. Mock, Altus, Okla. "Since changing to Conoco lubricants, however, I have found that price has been a very small part of my savings. I not only *use less* but my equipment *runs longer* between overhauls and the motors are so much cleaner when I do overhaul them. I farm 1,600 acres of mixed and tight land on which is grown wheat, alfalfa and other feed crops. From 100 to 400 steers and an average of 400 sheep are fed through the year. I have used Conoco lubricants exclusively for the last 14 years . . . Floyd Allen, Conoco Agent, has given me the best of service. I can depend on him to get the right kind of lubricants in the right place when I need them. I strongly recommend the use of Conoco Nth and HD Motor Oils and Conoco Greases to others because of economy. *I am sure that my savings can be credited to the use of Conoco Products.*"

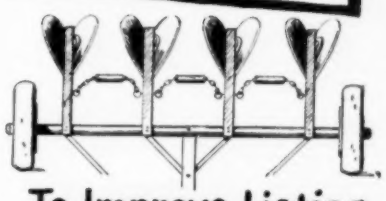
★ ★ ★

YOUR CONOCO AGENT

"6912 Hrs. Without Trouble"

"Our farms are located in the Wisconsin dairy land in the Buck Creek Valley of Southwestern Wisconsin," writes H. Brewer, Richland Center, Wis. "The farms are surrounded by great, picturesque bluffs which are familiar to everyone who has visited Southern Wisconsin. Each year my 4 sons and I harvest 200 tons of hay, 1,500 bushels of Clinton oats, 1,000 bushels of husked corn and 3 silos full of silage. I raise purebred Holstein dairy cattle and have won the blue ribbon first prize with my champion Holstein cow at the Richland County Fair. We use Conoco Nth Motor Oil all the time and feel it is also a 'thoroughbred' product. We like the Conoco greases real well, too. Our 2 Allis-Chalmers tractors have gone approximately 6,912 hours on Conoco Nth without any mechanical failures." That, of course, is because of the way Conoco Nth OIL-PLATES the moving parts of the tractor engines. You see, there's a special ingredient in Conoco Nth that fastens a film of lubricant right to the metal—protects automobile and tractor engines against wear. Mr. Brewer's record of 6,912 hours without any trouble shows what a fine oil Conoco Nth is. Try some, soon.

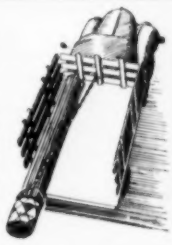
CONOCO



To Improve Listing

To cover weeds better, run chains (from old automobile mud chains) through a short piece of pipe and fasten them to your lister, as shown in drawing. Leaves fewer weeds above the soil, says Kay Strate, R. 1, Kinsley, Kans.

To Haul Pipe



"I sure used to get disgusted trying to haul well pipe and pump rods," says T. G. Schillerstrom, Salina, Iowa. "Now I keep them from sliding off the truck by slipping an empty 5-gallon Nth oil pail over the end of the pipe and tying it to the truck."

PRIZES FOR IDEAS!

Send your original ideas to *The Tank Truck* in care of this paper—and get a genuine $8 D-15 Henry Disston Hand Saw for every idea that's printed!

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MINNEAPOLIS-MOLINE MM MODERN MACHINERY

CLEANER, FASTER SHELLING MAKES MM THE PREFERRED SHELLER

MM quality Corn Shellers give you more for your money by shelling corn faster, cleaner, easier and better and shelling all corn without cracking the kernels or breaking the cobs to bits. MM Model D and E Corn Shellers are engineered and built to run longer. That's why MM Shellers are leading sellers.

MM SHELLERS OPERATE EASIER! MM Shellers have fewer moving parts and the high-speed roller and ball bearings are pressure lubricated and designed for heavy duty. MM Shellers can be backed into close quarters and wheeled right up to crib on two transporting wheels.

MM SHELLERS ARE SAFER! MM Corn Shellers are built for safe, dependable operation season after season. There are fewer moving outside parts and these are carefully shielded by protective guards.

MM SHELLERS LAST LONGER! Cylinder cages on Model D and E Corn Shellers require no adjustments or changing, and they are carefully balanced to eliminate vibration. MM Shellers have only one countershaft—no unnecessary gears, chains and sprockets to waste power and require attention. Drive gears are fully enclosed and run in oil.

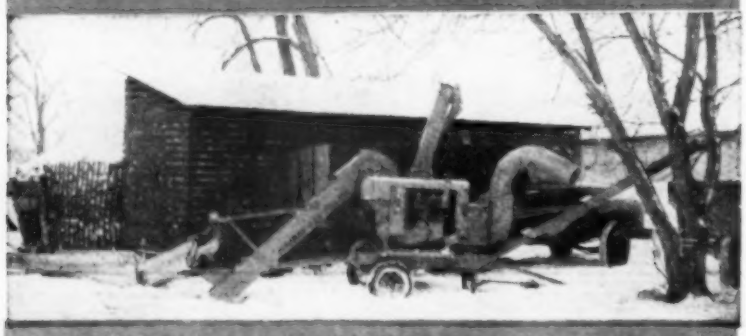
MM SHELLERS FIT YOUR REQUIREMENTS! MM Corn Shellers come in two sizes for the large or small corn grower. Model D has capacity of up to 200 bushels of snapped corn and up to 300 bushels of husked corn per hour and operates with 1 to 2 plow tractor power. Model E has capacity of up to 1000 bushels of snapped corn and up to 1200 bushels of husked corn per hour and runs with power of 2 to 3 plow tractor.

MM SHELLERS PROVIDE CLEANER CORN! MM's Corn Shellers clean better under all conditions with combined *blast* of the cleaning fan and *suction* of the suction fan operating together over entire length of adjustable cleaning shoe.

MM SHELLERS ARE IDEAL FOR CUSTOM WORK! Model D and E Corn Shellers are used in many localities for custom work. Truck chassis can be used to mount the Model DB and EB which have same high quality as the Model D and E and are similar in construction. MM DA and EA are popular models for warehouses and grain elevators.

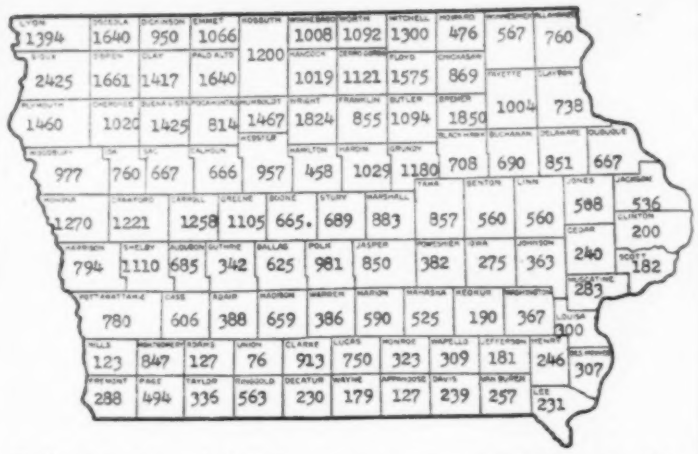
MORE *Features* HELP YOU DO MORE WORK BETTER AND IN LESS TIME!

- Smooth shelling gets off the corn without cracking or breaking
- Combined cleaning fan blast and suction fan action get the shelled corn cleaner
- Two wheels permit easy backing and shifting to close quarters
- Fewer adjustments and fewer moving parts require less attention
- Fewer outside moving parts make shellers safer and easier to operate
- Cylinder cage requires no attention, adjustment, or sharpening
- MM Shellers are light running, easy to transport, and easily lubricated
- MM Shellers shell husked or snapped corn



See Your Neighborly, Neighborhood MM Dealer for Complete Facts on MM Corn Shellers and Other MM Modern Machines, Valveinhead Tractors, and Power Units.

MINNEAPOLIS-MOLINE
MINNEAPOLIS, MINNESOTA



Fall corn borer infestation survey shows population of adult borers per 100 plants. Only a few fields in each county were surveyed. So entomologists advise you to average the figure for your county with data from surrounding counties to get a closer estimate. For example, the figure for Hamilton county is probably low, and should be averaged in with the surrounding counties to get the actual borer population there.

What About Borers Next Year?

State Entomologists Say That Chemical Control Is Necessary To Avoid Losses

"OUR corn borer population is such that Iowa farmers are going to have to think in terms of chemical treatment as an added operation in corn growing, just like cultivation," says Dr. H. M. Harris, state entomologist.

"Up to now, farmers have too often looked at their fields, counted the egg masses, and said: 'I'm going to take a chance and see if I can get by.' From here on out, you'll lose more often than you win, if you skip treatment," Harris added.

He went on to point out the severe losses suffered this fall. At the same time, he said too much blame is being placed on the high winds early last month.

"We know that a lot of the stalks would have been broken and a lot of ears would have dropped in the next couple of weeks, anyway, because the borers were there," Harris says.

And don't think you've seen the worst that borers can do. Harris points out we have not yet seen a year completely favorable to the borers. In other words, it could be a lot worse, if chemical treatment doesn't become general, he thinks.

For example, this year we had ideal over-wintering conditions for borers, and ideal weather for them up until the eggs were deposited on the corn plants. Then the survival of baby borers wasn't nearly as high as it might have been. On hot, dry, windy days, many egg masses scaled off the leaves and many baby borers died, Harris says.

On the other hand, Harris points out, the unusually high infestation this fall, and the fact that borers are entering the winter fully mature, does not mean next year will be equally bad as a corn borer year.

Next year can be better — or worse.

Thruout the winter and spring months, Iowa experiment station and extension personnel will be holding meetings, explaining control measures.

These men will emphasize the destruction of the corn borer population by every means except that of burning the corn stalks. That not only is a bad farming practice — stalk-burning does not kill many borers.

Experimental tests have shown again and again that the insulating value of the corn stalk, plus the ability of the corn borer to crawl down the stalk to get away from the heat, lets too many borers escape.

There is much yet to be learned about the control of the borer. As one item, Iowa State College, this fall and winter, is going to run borer survival tests on fall-chopping or disking of stalk fields and also on spring chopping or disking.

College and USDA entomologists have just finished collecting borer specimens in areas where the natural parasite program is under way. These borers must be wintered. Next year, the entomologists can tell from the number infested with natural parasites, how many borers would have died under natural conditions.

Still, the final answer at this time seems to be chemical control.

Iowa infestation this season is the highest ever recorded. It was bad in 1948. At that time, too, Marshall county had the worst infestation, with 585 borers per 100 stalks; this fall, Marshall has 883. Last year, Jasper was second high with 528 borers per 100 stalks; this fall, Jasper has 850.

But many counties are much higher. Sioux county has 2,425 borers per 100 stalks. Humboldt, Palo Alto, Clay, O'Brien, Osceola and Bremer all have more than 1,400 borers per 100 stalks.

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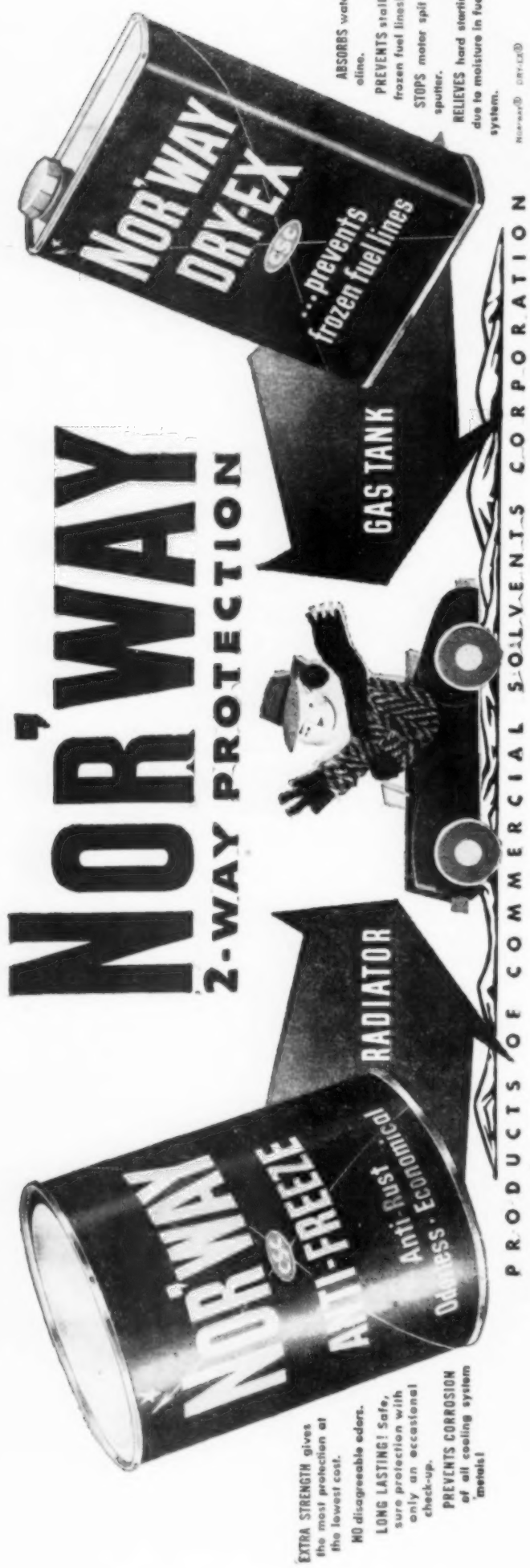

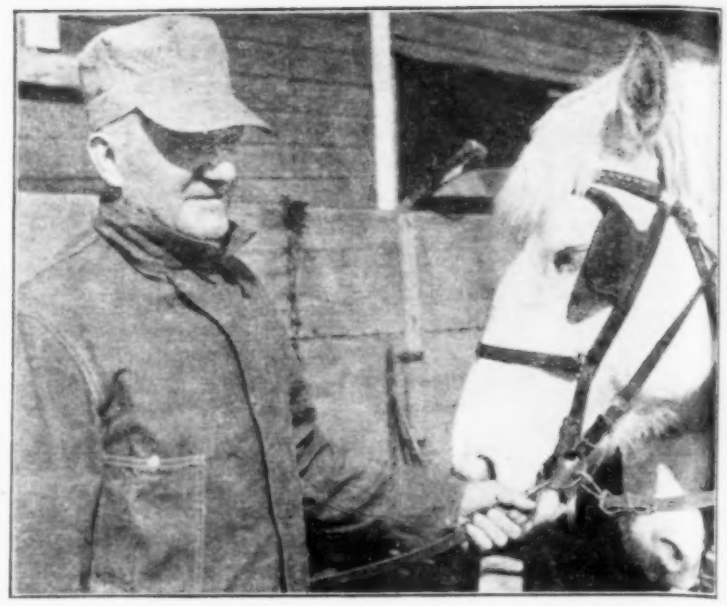

Horses staged a comeback for a few weeks in Iowa as farmers looked—usually in vain—for teams to use in gleaning corn. Farmers like Gus Rumbauer, of Marshall county, shown in picture, claimed a short-time advantage over folks operating horseless farms.

INSIDE STUFF

HAD ANY ARGUMENTS in your neighborhood about picking up corn after the corn picker has gone thru the field? So has everybody else.

▲ ▲

THERE'S the landlord up in Black Hawk county, Iowa, who said to his tenant: "I figure there's 30 bushels on the ground. Just give me $15 an acre, and we'll call it square."

▲ ▲

A TENANT in Boone county, Iowa, had a different idea. He said to the landlord: "Let's you and me go out and pick up corn on nine rows in different parts of the field. Then we'll know how much is really on the ground. Then take the local price for free corn, to see what it's worth."

▲ ▲

THE LANDLORD said: "Then you pay me at the free corn rate for half the corn on the ground." "No," said the tenant, "that's where we start to bargain. I think a 60-40 split would be better."

▲ ▲

A VISITING Frenchman, Andre Phillipe, tells me proudly that French industrial production is up 30 per cent over pre-war. He adds that they have the same trouble we do about farm prices dropping faster than retail prices of farm products.

▲ ▲

"DURING the inflation," he says, "every shop-keeper made money. He buys something for a dollar. The price goes up to a dollar and a half. He can't lose."

▲ ▲

SO, INSTEAD of two million shopkeepers, France has three million. But now prices are going down. And the extra million shopkeepers are going broke. But they keep margins wide.

▲ ▲

HARTLEY Mackintosh, Humboldt county, Iowa, likes horses. He's kept a team long after most farmers got rid of them. This fall, he feels the team made good.

▲ ▲

HE'S BEEN PICKING up corn ahead of the machine, in order to get the loose corn before the tractor grinds it into the ground. That down-corn is running 20 to 30 bushels an acre.

▲ ▲

THE TEAM gets some of the credit for saving it. But Mackintosh adds that a team isn't enough: a fellow also needs a hinge in his back.

▲ ▲

HOW DID SPRAYING work for you this year? Farmers are talking over the season whenever they get together.

▲ ▲

"AROUND my place, sprayed corn stands up lots better," says J. O. Smith, Hardin county, Iowa. "Some of us will work harder at spraying for corn borers next year."

▲ ▲

SMITH REPORTS a good kill on morning-glories in the corn field with 2,4-D. A. Wendell, of Woodbury county, tells me that 2,4-D cleaned up a lot of cockleburs on low ground up his way.

▲ ▲

HENRY FIELD is gone. Corn belt farmers always enjoyed his informal chat in "Seed Sense." Remember the postcards ("Program coming in fine") he used to read over the air in early radio days?

DONALD R. MURPHY.

WALLACES' FARMER AND IOWA HOMESTEAD
(Volume 74—Number 21)
DANTE M. PIERCE, Publisher
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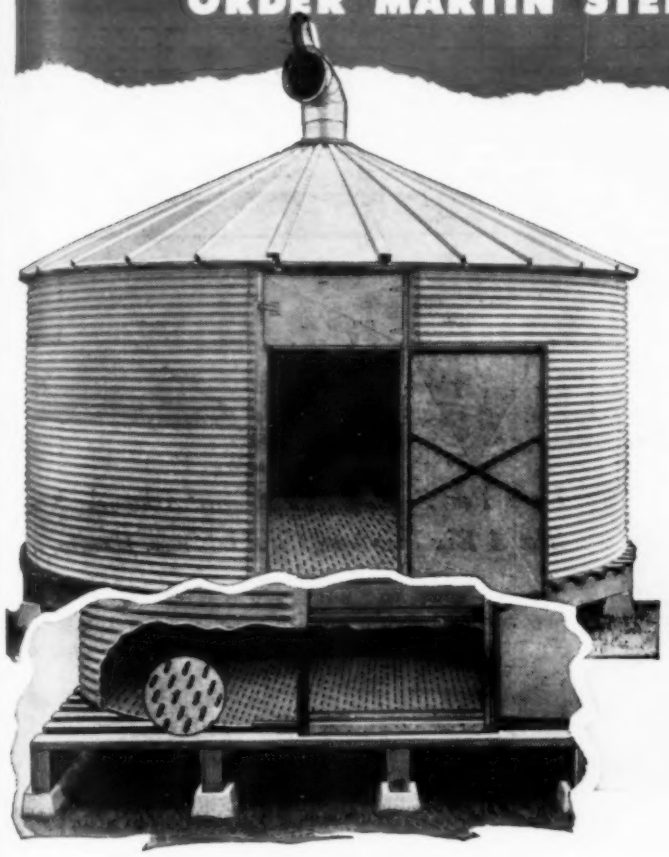

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It's not too late to get a Martin Crib for your 1949 Corn — Or for 1948 loan corn if you are resealing for carry-over into 1950.

Martin Steel-Bilt cribs save all the corn . . . keep out rats . . . eliminate spoilage losses. Even high-moisture corn is SAFE in a Government Approved Martin Steel-Bilt crib. You can order a Martin now and be assured that your corn will qualify for a government loan.

The Government will finance 85% of the cost of Martin cribs...over 5-year period

You pay only 15% down, and finance the balance over a period of 5 years. Storage fees and higher prices will pay for your Martin crib in less than 5 years! Many farmers have paid for Martin cribs in 2 years . . . from increased profits alone!

SCIENTIFICALLY VENTILATED FOR 100% SAFETY

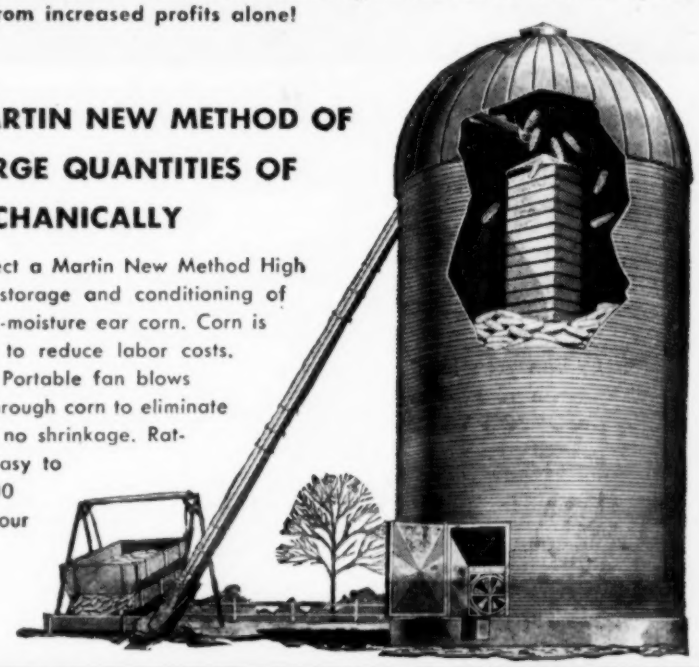
For high-moisture shelled or ear corn

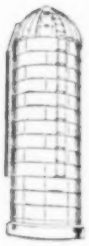
The perforated steel floor permits air to pass upward through your corn, speedily removing excess moisture. Dry by natural ventilation, or foundation can be adapted for conditioning with heated or unheated forced air. Yes, your corn is SAFE in a Government Approved Martin Steel-Bilt Corn Crib.

All Martin Steel-Bilt Corn Cribs are approved for government loans!

MARTIN NEW METHOD OF HANDLING LARGE QUANTITIES OF EAR CORN MECHANICALLY

There's still time to erect a Martin New Method High Round Crib for SAFE storage and conditioning of large quantites of high-moisture ear corn. Corn is elevated mechanically to reduce labor costs. No shoveling needed. Portable fan blows natural or heated air through corn to eliminate moisture. No spoilage; no shrinkage. Rat-proof, weatherproof. Easy to erect in 1200 to 12,000 bushel capacity. Rush your order *today!*



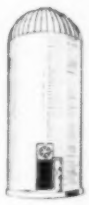


STEEL-BILT SILO

Withstands heaviest pressures of grass silage. Retains all juices to make finest silage at lowest cost.

STEEL-BILT HAYMAKER

Eliminates loss, reduces labor. Most efficient method of curing and storing chopped hay. Quick curing retains green color and rich food value of fresh hay!



Save Time— WIRE OR PHONE

your order direct to factory or if you know your Martin Dealer —See him today! As soon as we get your order we'll rush a set of instructions so you can prepare your foundation and be ready to set up your Martin Crib the day it arrives . . . with no time lost. So . . . phone or wire your order . . . Today!

STEEL-MARTIN Farm Buildings-BILT

PIONEERS IN THE DESIGN AND FABRICATION OF STEEL BUILDINGS EXCLUSIVELY FOR THE FARM

MARTIN STEEL PRODUCTS CORP., 1423 Longview Ave., Mansfield, Ohio

Rush complete information at once on

☐ New method of conditioning ear corn. ☐ Safe storage method for shelled corn and small grains. ☐ Martin "Haymaker" method of curing and storing chopped hay. ☐ Martin "Steel-Bilt" silo.

Name _____

Address _____

City _____ State _____

LET HOGS HARVEST FALLEN CORN!

ARBIE HARVEST SPECIAL

100 lbs ARBIE MINERALS GIVEN

with every ten bag order!

FALLEN CORN? Let your hogs harvest it! ARBIE'S HARVEST SPECIAL makes it possible for you to get an extra 100 lb. bag of ARBIE MINERAL FEED **at no extra cost!** You save 10% on every 10 bag or 20 bag order. That's right, 11 bags for the price of 10 or 22 bags for the regular 20 bag price! **Don't neglect those fall pigs.** Give them a **balanced mineral diet** with your corn. Two weeks' neglect now means 30 days additional feeding later. Get **MORE** PER ACRE . . . get **MORE** PER HOG . . . get **MORE** with ARBIE!

ARBIE MINERALS help your livestock and poultry **PRODUCE MORE, PRODUCE FASTER, PRODUCE CHEAPER!** Here's your chance to cash in on ARBIE'S HARVEST SPECIAL. Save money on your feed . . . and pocket the extra money on your hogs, cattle and poultry. **MAIL THE COUPON TODAY. Remember, this offer is limited!**

OFFER CLOSES NOVEMBER 30, 1949

Mail this Coupon Today

ARBIE MINERAL FEED CO.,
MARSHALLTOWN, IOWA.

Gentlemen: I want more information on your ARBIE HARVEST SPECIAL. (Check below.)

☐ Rush me complete information and prices on your 10 bag offer. (11 bags for the price of 10)

☐ Rush me complete information and prices on your 20 bag offer. (22 bags for the price of 20)

☐ Please have my ARBIE SERVICEMAN call on me immediately.

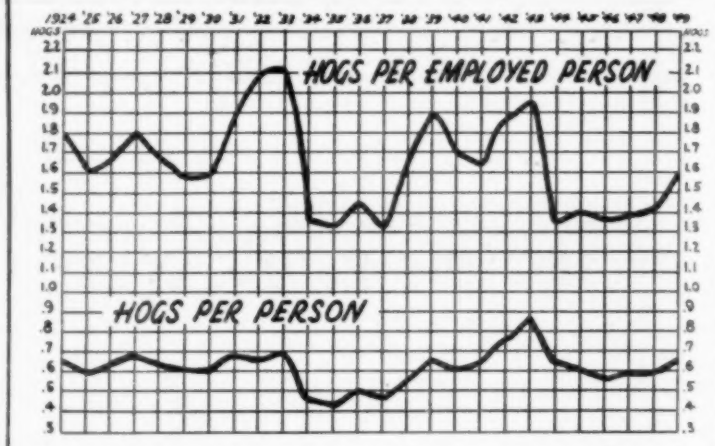
NAME .....

ADDRESS OR R. F. D. .....

TOWN ..... STATE .....

Some attractive territories open for good salesmen.

DETROIT PUBLIC LIBRARY DETROIT PUBLIC LIBRARY



Your Share of hogs raised in 1949 is shown here. Upper line shows number of hogs raised this year for each person holding a job. Lower line shows number of hogs raised for each man, woman and child in the country. Figures in margins indicate number of hogs. Top figures, years from 1924 thru 1949.

Are You Planning On More Pigs?

Hogs Per Person Are About Average Now, But A Big Increase Could Mean Headaches

BREEDING time for sows to raise March pigs is just a week or so away. In about five weeks, it will be time to breed sows for April litters.

Those farmers who try to fit their hog crops to price prospects have several things to consider. Here are two of them:

1. The total hog crop. Should there be more hogs or fewer hogs in 1950? Will consumers buy a larger hog crop at a fair price?

2. The corn-hog ratio. Will there be money in producing hogs in 1950, compared with selling corn?

Farmers produced about 96 million pigs in 1949. Only in the war years of 1942 and 1943 have bigger hog crops been produced. But hog numbers alone don't tell the story.

How many hogs are there per person? How many hogs per employed person? These are shown in the chart at the top of the page for the years 1924 to 1949. Here are some interesting points:

Farmers produced about two-thirds of a hog for each person in the United States in 1949. The exact figure is .652 per cent of a hog per person. That is slightly higher than hog production per person in the years 1924 to 1929.

Hogs per employed person may be more significant. Here it is found that jobs have gone up faster than hog numbers.

Average number of hogs per employed person in 1949 was 1.62. In the years 1924 to 1929, the average was 1.67 hogs. Only in the drouth years, 1934 to 1937, and in the recent war years, has pork production been lower in relation to jobs than now.

Looking at total hog numbers alone, it appears that another hog crop as big as the 1949 crop would knock the bottom out of the hog market. And it might happen if business and employment were bad.

But hog numbers as compared with number of people to feed are not badly out of line. A population increase of about two million people per year has equaled the hog increase.

Maybe you want to market some of your surplus corn in a hog hide. If so, you are interested in the probable corn-hog price ratio for 1950.

For 35 years, farmers have tended to increase hog production when 100 pounds of live hog were worth more than 13.5 bushels of corn. At a ratio less than 1 to 13.5, farmers have raised fewer hogs.

According to farmers' reactions, hogs should be about $18 with corn at the sealing price of $1.31. With corn at 90 cents, hogs should be about $12 per hundred.

When you look at hog support prices for the winter months, no big profits in turning corn into pork are indicated for 1950. That is assuming that both corn and hogs will rest on the support levels. With "free corn" at less than a dollar, and support prices for hogs, big profits might result, however.

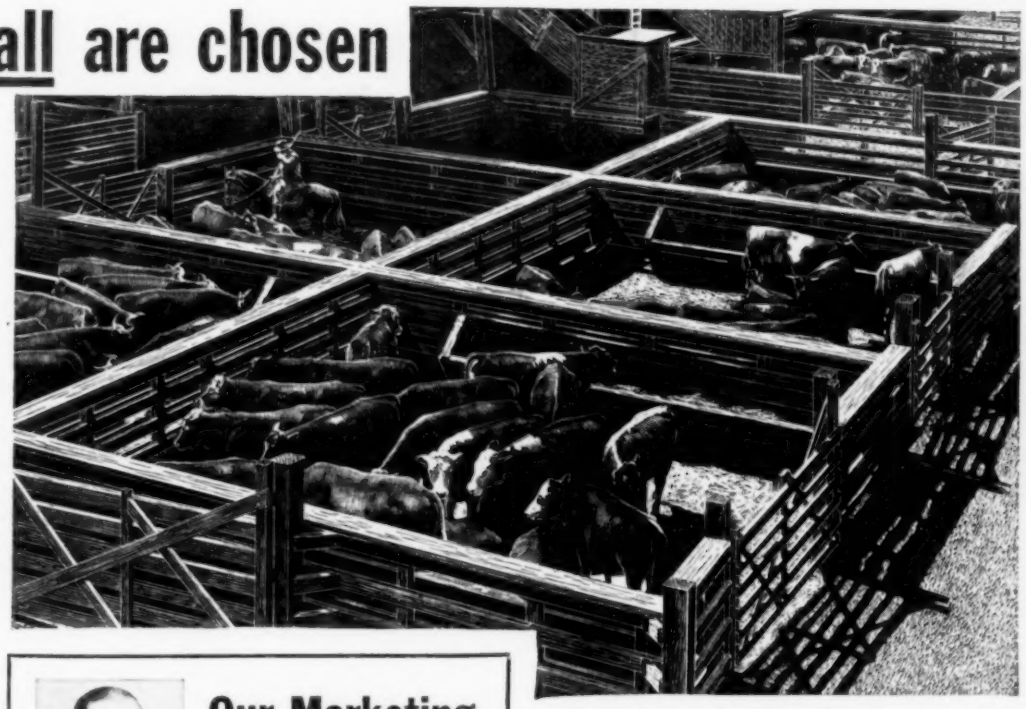
In fact, price supports on both corn and hogs have introduced a new factor into the swings of the corn-hog cycle. With effective supports, there would be no big profits or big losses in raising hogs.

Looking at the record of the last 25 years, you could say that another small increase in hog production for 1950 might be sold at fair prices if business and employment stay good.

But prices will probably ride on the support mechanism. And hog support prices were a wartime device. They have not been tried in peace-time.

The hog position at present is as strong or stronger than the corn position. Barring a bad drouth in the corn belt in 1950, hogs should pay for corn except, perhaps, during the time of heavy winter marketings when support prices are low.

Many come and all are chosen



Now, by road and rail, the meat animals roll to market. To Omaha, Kansas City, St. Louis—to Ft. Worth, and Denver and Chicago—to hundreds of other markets. But no matter whether they come to local markets or larger central markets—no matter in how great numbers—there is a demand and a buyer for every single head.

In every livestock market, there is keen buying competition. Omaha, for example, has 14 meat-packing plants. They have buyers in the Omaha yards. They bid against one another. But do those packer-buyers "have it all their own way"? Not on your life! Last year buyers for meat packers in 250 *other* cities bought and reshipped almost ⅓ of Omaha's total livestock receipts. Still another 800,000 head were bought and shipped out again to farmers and feed lot operators in 27 states . . . You *bet* there's *all kinds* of competition—in Omaha and everywhere else.

In that intense buying competition across the nation, Swift & Company plays its part. Your livestock is the "raw material" which we must constantly buy, to stay in business. One place or another, all meat packers bid against 18,000 other firms, large and small, which slaughter livestock commercially in the United States.

Making a market for your animals is one of the many links between livestock producers and meat packers. Your animals must be "manufactured" into meat—transported to the places where the meat-eating millions of people live—distributed to hundreds of thousands of retail stores where they can buy it . . . In all of these activities, vital to your business, the people of Swift & Company play a hard-working part.

SPREAD?

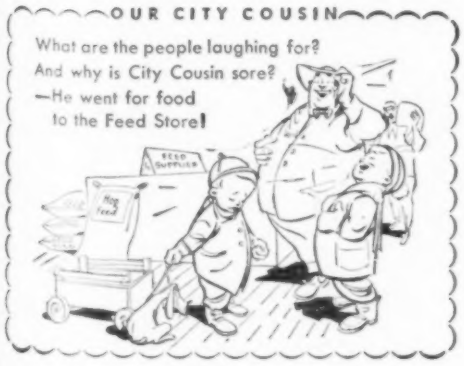
If a steer were all steak
From his rump to his head,
Few people would worry
About what's called "spread."

Spread is the difference
'Tween what's paid for a steer
And meat price at retail.
Some cuts are quite dear.

All meat cuts are sold
At so much for each pound:
But brisket brings in
Much less than the round.

Stew beef and other cuts
Must sell, without fail,
And often bring less than
The meat *cost*, wholesale.

In figuring "spread"
And what each of us makes,
Be sure to remember . . .
Your steers aren't all steaks!



Our Marketing Services Benefit YOU!

In your business of producing livestock, it is necessary to work hard and be a good manager if you are to come out with money ahead on your operations. You plan the best pasture and feeding programs for the number of head you intend to carry. Operating costs are kept down by full utilization of labor and the proper use and care of machinery and equipment.

We have similar problems at Swift—keeping operating costs down in processing plants and sales units. Not only must we be efficient in the processing and distributing of our products. We must also turn every waste product into something of value—"use everything but the squeal." Swift research scientists develop new products, find new uses for others. Our home economists experiment with all meat products. They pass information to home makers which aids in cooking methods. Swift sales people use effective merchandising campaigns to stimulate demand for meat products . . . and to assist retail meat dealers in selling more meat.

In order best to serve producers of livestock and consumers of meat, we *must* be efficient. Our system of refrigeration and marketing makes it possible to transport meat at low cost to areas of the United States which cannot produce their own supply. It is the same marketing system that gives you the benefit of a nation-wide market . . . and thus helps increase the value of your livestock.

O. E. Jones
Vice President, Swift & Company

Martha Logan's Recipe for

OLD-FASHIONED TURKEY STUFFING

(Yield: 5 cups)

2 cups chopped onion	1½ tsp. salt
2½ cups diced celery	⅛ tsp. pepper
½ cup butter or margarine	½ tsp. poultry seasoning
12 slices white bread	1 egg
¾ tsp. nutmeg	

Fry onion and celery in butter or margarine until tender. Toast bread until dry and golden brown in a slow oven (325°F.). Soak bread in cold water until soft. Remove bread from water and squeeze until dry. Tear into small pieces and put into bowl. Add onion, celery, and butter. Sprinkle with seasonings which have been mixed together. Combine. Add slightly beaten egg and toss together with forks. This makes a moist and fluffy dressing. Stuff bird just before roasting.

Quotes of the Month

"We take meat on the table for granted. But it requires a complex and highly efficient supply service to bring it to us."

Industrial News Review

"Livestock contributes to soil building and improved land use, better nutrition, less dependency on foreign outlets for a market for grain products, and serves as a cushion against food shortages."

Robert J. Eggert, *Economist*

Soda Bill Sez : : :

The feller who says, "I was wrong," is making progress—he's smarter than he was yesterday.

If you want your married life to be a harmony, be prepared sometimes to play second *fiddle.*

It's short-sighted to be long-winded.

Mineral for Dairy Cattle

C. F. Huffman

C. F. Huffman, Michigan Ag. Experiment Station East Lansing, Mich.

For growth, reproduction and milk production, dairy cattle require a dozen mineral elements. But the need for mineral supplements, however, depends on the character of the feed (forage or concentrate), the nature of the soil, weather conditions during the growing season. Roughages, grains and grain by-products are all usually low in the elements found in common salt, so it's best to mix 1 per cent salt with the grain, and also allow free access to salt.

Dairy cattle seldom need a supplement supplying calcium, since as a general rule roughages are rich in this element. On the other hand, roughages are frequently low in phosphorus. Cattle suffering from a *mild* phosphorus deficiency may show an abnormal craving for things such as wood and bones. But in *marked* phosphorus deficiency, the only abnormal symptom is a reduced feed intake. No phosphorus supplement is needed when milking cows are fed liberal amounts of commercial dairy feeds; or when the grain mixture contains at least one-fifth mill feed by-products, or protein concentrates. When legume roughage furnishes the principal source of protein, allow free access to a mixture of equal parts of odorless steamed bone meal and salt.

Three trace mineral elements—iodine, cobalt, and copper—are needed as supplements in certain regions of the United States. Consult your State Agricultural Experiment Station for trace mineral element recommendations.

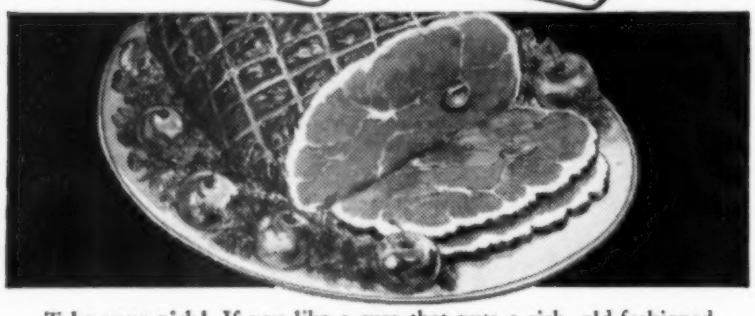
Swift & Company

UNION STOCK YARDS, CHICAGO 9, ILLINOIS

Nutrition is our business—and yours

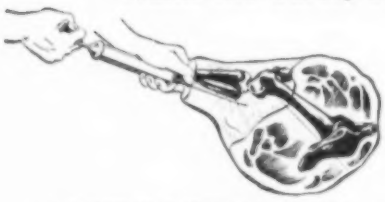
NOW you can get MORTON'S SUGAR CURE

with or without smoke flavor



Take your pick! If you like a cure that puts a rich, old-fashioned smoke flavor into your meat, get Morton's Regular Sugar Cure. If you prefer to smoke the meat yourself — or do not want smoke flavor — get Morton's Sugar Cure *without* smoke. Your dealer can supply both kinds. Choose either one — you're *sure* of mild, deliciously cured meat.

It's Easy to Cure Better-Tasting, Longer-Keeping Hams the Safer, Surer Morton Way



1 START THE CURE INSIDE. Dissolve Morton's Tender-Quick in water and pump along the bones. This fast curing pickle helps prevent bone taint, undercured spots.

2 RUB THE OUTSIDE WITH MORTON'S SUGAR CURE, which strikes in, curing toward the center. This assures a uniform, thorough cure, delicious flavor from rind to bone.

You'll get more enjoyment, more good eating when you cure your meat the Morton Way. It brings out all the natural flavor, improves color. And it's so easy — because every Morton product is ready-mixed, *ready to use.* No undercured spots. No waste. Try the surer, easier Morton Way. It's preferred by more than a million farm families.

10¢ MEAT CURING BOOK 10c
Write for this valuable meat-curing book. 200 pictures. Easy directions on how to butcher and cure. Send only 10¢. Morton Salt Co., Box 781, Chicago 90, Illinois.

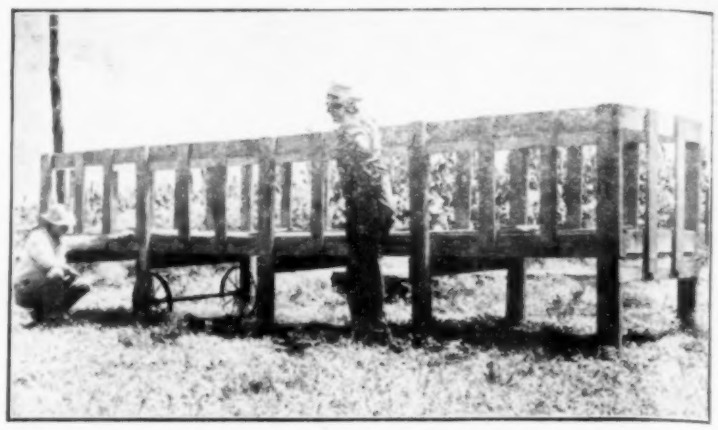
Cure your meat the improved

MORTON WAY

Write for this Valuable FREE Folder

Shows New, Easy Way to Cure Boneless Hams and Shoulders

Now you can cure *boneless* hams and shoulders at home! Ready to eat in 12 to 14 days. So easy to slice. Mild delicious flavor. Free folder gives easy step-by-step directions. Write for your copy today! Address—Morton Salt Co., Box 781, Chicago 90, Illinois.



Wheels on beef cattle feed bunk enable Lloyd Larson (right), of Fillmore county, Minnesota, to move bunk easily. The end opposite wheels is lifted and attached to the tractor for easy moving.

Income Tax Rules Up In The Air

Court Says Cow And Sow Money Only Half Taxable . . . Commissioner Doesn't Agree

WHO'S boss about what farmers have to report for income tax purposes? Is it the U. S. internal revenue commissioner? Or the federal circuit court at St. Louis?

These two federal agencies haven't agreed on the method of reporting gains from the sale of dairy cows and brood sows.

The court says all such sales come under the capital assets rule if animals are used on the farm and held over six months.

The commissioner says they are treated as capital assets only under certain other conditions which he sets out.

You may pay $200 more income tax per year under the commissioner's ruling than would be due under the court's interpretation of the law. This difference would exist on farms with just average-sized livestock enterprises.

Why so much difference? Because gains from capital assets, held over six months, are only 50 per cent taxable. The court would let you put gains from sale of breeding stock in the 50 per cent taxable classification.

The commissioner's rules permit farmers to report gains from the sale of dairy and breeding stock under the capital assets rule under these conditions:

1. You must have owned the dairy or breeding stock and used it on your farm for six months or more.

2. The sale must be what the commissioner calls an "abnormal" sale. That is, animals must be sold to reduce the size of the herd or for the purpose of changing the breed or quality of the livestock.

Under these rules, public sales, dispersion sales, or any sale which reduces the size of the herd produces gains that go in the 50 per cent taxable list.

But, under the commissioner's rulings, the farmer can not report gains from the sales of brood sows under the capital assets rule if the sows have raised one litter. Nor can he take advantage of the sale of old cows that are to be replaced with young cows of the same breed.

The St. Louis court said that farmers could report sales of dairy cattle and brood sows under the capital assets rule in all cases if used on the farm over six months. The court rejects the "abnormal sales" limitation insisted upon by the commissioner.

Thus, brood sows held only long enough to raise one littter will usually meet the qualification. Cows sold and replaced by younger cows would be reported under the 50 per cent taxable rule.

Altho J. W. Albright, Goodhue county, Minnesota, who carried the case to court, did not have beef cows or breeding ewes, the principle stated by the court would include all breeding and work stock.

The court says one thing. The tax collector says another. The government refused to carry the case to the U. S. supreme court to get the matter cleared up. The commissioner says his ruling will not be changed.

The commissioner, in a letter to Wallaces' Farmer and Iowa Homestead, says "the Bureau does not concur in the decision in the Albright case, the issue will be litigated in other circuits."

Until the case is acted upon by the U. S. supreme court, the commissioner can insist that the taxpayer follow his rulings on gains from dairy and breeding stock. If he does, the farmer would have to sue to get his rights as interpreted by the circuit court.

We'll follow this case and report in future issues. But here is what you could plan to do now:

1. Figure your 1949 income tax both ways. If there is a substantial saving thru application of the court interpretation of the law, file your report that way. If the tax men refuse to accept your report, pay the balance, but file for refund. You will have a little interest to pay, but you will be protected in case the court's interpretation of the law is upheld.

2. Then go back and figure your income tax for the past three years under the court interpretation of the law. File for refunds if you have overpaid according to the court's ruling. Refund requests are never outlawed. But you can't ask for refunds on an income tax more than three years old.

QUIPS AND QUOTES

SOME LITTLE BOYS want to grow up to be politicians. Other little boys want to amount to something.—Cherokee Courier.

A SINGLE WASP buzzing around in church will get far more attention than the most eloquent minister.

A MAN WITH SIX children is better satisfied than a man with a million dollars. The millionaire wants more.—Walnut Bureau.

MEN LEARN TO TALK in a few months, then spend the rest of their lives learning to keep still.—Lenox Time Table.

THE MEN WHO TRY to do something and fail are infinitely better than those who try to do nothing and succeed.—Blakesburg Excelsior.

MODERN AGE: Too many people in too many cars in too much of a hurry going in too many directions to nowhere for nothing.—Woodward Enterprise.

A JUVENILE DELINQUENT is a youth who arouses suspicion of his character by going around acting like an adult.—Grundy Center Register.

A MAN WHO CAN DRIVE safely while kissing the pretty girl with him isn't giving the kiss the attention it deserves.—Clear Lake Reporter.

HUMAN NATURE is that trait which makes you swear at the pedestrian when you're driving, and at the driver when you're a pedestrian.—Manning Monitor.

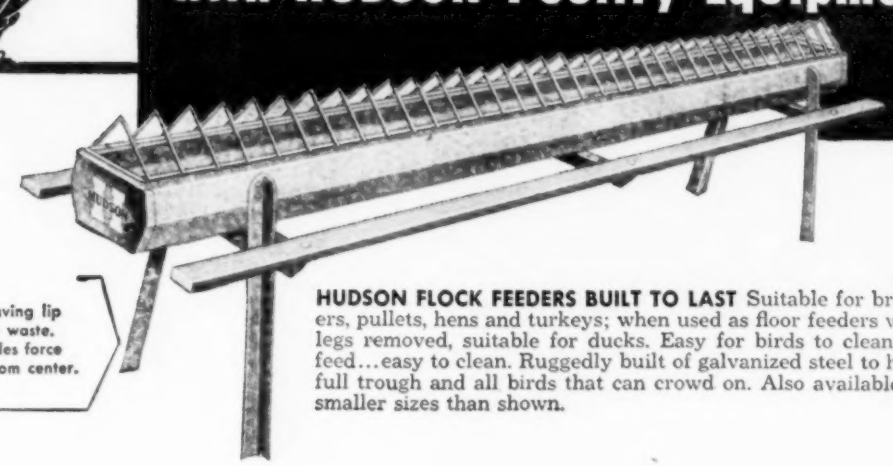
THERE'S SOMETHING deeply significant about the fact that Americans generally feel more comfortable when congress isn't in session.—Mason City Globe Gazette.

MOST AUTO ACCIDENTS occur on Saturday and Sunday, proving it's a great life if you don't week-end.—Guthrie Center Guthrian.

KEEP YOUR TEMPER. Do not quarrel with an angry person, but give him a soft answer. It is commanded by the Holy Writ, and, furthermore, it makes him madder than anything else you can say.—Correctionville News.

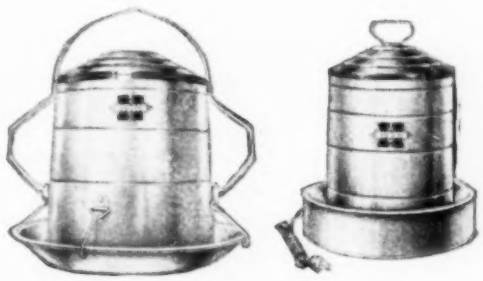
"Hello, there! I hear you have a new automatic washing machine."

More PROFIT...Less Work
with HUDSON Poultry Equipment



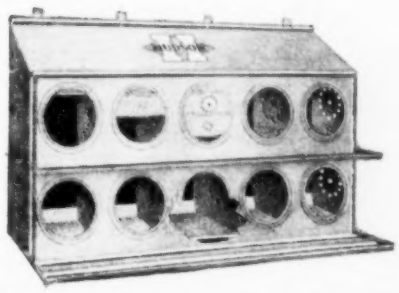
1" feed-saving lip cuts feed waste. Sloping sides force feed to bottom center.

HUDSON FLOCK FEEDERS BUILT TO LAST Suitable for broilers, pullets, hens and turkeys; when used as floor feeders with legs removed, suitable for ducks. Easy for birds to clean up feed...easy to clean. Ruggedly built of galvanized steel to hold full trough and all birds that can crowd on. Also available in smaller sizes than shown.



HUDSON "EASY-FILL" FOUNTAIN (left) To fill this fountain simply flick up the hooks, remove pan, reverse handle and it's a pail—easy to clean—and handy to fill and carry. Built for rugged service.

HUDSON LEKTRIK-FOUNT (right) Famous Hudson 5 gal. double-wall fountain with patented air-groove that lets air enter fountain without gushing. Automatic electric heater with thermostatic control in base.



HUDSON METAL NESTS FOR EXTRA PROFITS Get higher prices for cleaner eggs. Hudson nests often pay for themselves in 18 months...but built to last for 20 years or more. Easy to clean and keep clean. Mite and lice-proof—roomy, well ventilated. Comfortable. Easy to install.

HUDSON OIL FOUNTAIN HEATER (left) Galvanized steel, doubled-seamed into one piece. Offset holes let in air without drafts; keep chaff, litter, long straw from flame. Sixty-hour fuel bowl.

HUDSON ELECTRIC HEATER (right) completely automatic; holds water temperature between 45° and 60° F. Heating element shielded from outside moisture. Water-proof, shock-proof. Uses AC or DC.

HUDSON LEKTRIK-AIR VENTILATOR Built for year 'round air control. In mild months, open cabinet door removes warm top air; in winter, door is closed to draw cold air from near floor. Soon pays for itself in increased profits through high year 'round egg production. Means dry litter, less work, fewer eggs to clean. Dry walls and ceilings; less opportunity for germs. Reduces colds and diseases. Write our engineers on your Poultry Ventilating problems today. No obligation or charge.

HUDSON AUTOMATIC TROUGH WATERER
At last—a foolproof, fully automatic valve! Valve works on gravity principle. When trough is full, weight of trough and water pulls valve shut. As water is drunk, valve automatically opens to let water flow into trough. Valve shuts automatically when trough is removed. Trough is heavy galvanized steel—holds four quarts—use one for 500 chicks.

SIGN OF THE BEST BUY

HUDSON

Tested and Proved
SPRAYERS AND DUSTERS
HAYTOOLS AND BARN EQUIPMENT
LIVESTOCK EQUIPMENT
FARM VENTILATION EQUIPMENT
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Please send me FREE literature on Hudson's *full* line of Poultry Equipment.

Name of My Dealer _____
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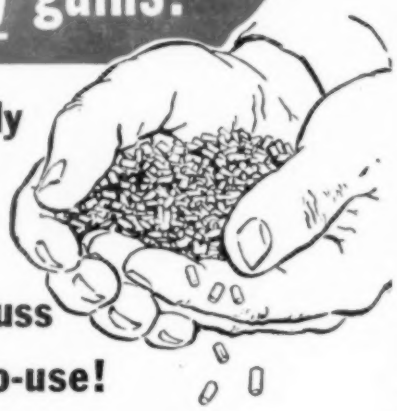
NEW! Feed saver and profit booster for winter hogs

KRAYLETS—the dry feed that's 80% dairy products —helps hogs make thrifty gains!



LOOK! It's handy
dry kernels!
Can't freeze!
No slopping or muss
Comes ready-to-use!

Read the proof! Dairy products in Kraylets help make pork at amazing low cost— even in winter!

On one farm in Iowa last winter, hogs fed Kraylets gained 100 lbs. of weight on 320 lbs. of feed. That means that feed costs were only $10.43/cwt of pork gain. People say that's good anytime. But this was in cold weather and under dry lot conditions!

Kraylets is a concentrated feed that "boosts" the value of other rations. It contains 80% dairy products. These dairy products make other feed work harder—to make more gain on less feed!

Don't delay—ask your feed dealer about profit-boosting Kraylets today! It's not too late to start giving your fall pigs the benefits of dairy products this new, easy way.

A KRAFT PRODUCT

Workday Pointers

EXACT PRICE should be agreed upon before you let anyone start cleaning your septic tank.

▲ ▲ ▲

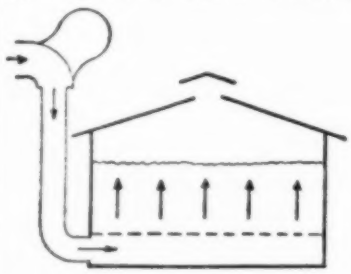
CORN UNDER LOAN is still your corn. You can pay the loan and own the corn again. You also take the loss if the corn spoils in storage.

▲ ▲ ▲

HOGS SUFFERING with flu should be disturbed as little as possible. But water and laxative feed should be where they can get them with the least possible effort.

▲ ▲ ▲

SHELLED CORN or small grain can be dried by using the principle shown in this illustration.



You need an extra floor in the bin and a forced air drier to push the air into the space between the floors. Heated air is usually forced thru the grain.

▲ ▲ ▲

CATTLE ALONE will not do a good job of cleaning up downcorn. They will chew at the big ears, slobber over them, and then leave them alone. Hogs or sheep do the best job.

▲ ▲ ▲

SOYBEAN STRAW from a 30-bushel crop is worth $10 per acre when plowed under, say Purdue crop specialists. Plant food is valued at $4.30 per acre, and the loss of organic matter accounts for the $5.70 per acre.

▲ ▲ ▲

RESEALED CORN on your farm is taxed at 25 cents per 1,000 bushels in Iowa. In Illinois, Minnesota, Missouri and Nebraska, stored corn is taxed as personal property. Iowa tax-payers should point out to assessors the number of bushels of old corn that is resealed, as unsealed old corn bears the full tax rate in the district.

▲ ▲ ▲

SOME FARMERS put a hundred pounds of gain on hogs with 300 to 350 pounds of feed. But it is estimated that 450 to 500 pounds are required for 100 pounds gain on the average farm. Good care, sanitary yards, balanced feeding with protein, vitamins and minerals, make the difference. Good feeding can save about 300 pounds of feed for each hog raised under average conditions.

▲ ▲ ▲

TOTAL PROTEIN in pig feed should be about 18 per cent for young pigs and 15 per cent for pigs after they weigh 100 to 125 pounds. Total protein is figured by including the protein in corn and in the mixed protein supplement. Corn usually has about 8½ per cent protein. So 70 pounds of corn and 30 pounds of 40 per cent protein supplement would make an 18 per cent ration.

RUSTY CANS will reduce the quality of milk or cream stored in them.

▲ ▲ ▲

SEPTIC TANKS, when properly installed, should need cleaning once in every three to five years, says the Ohio extension service.

▲ ▲ ▲

MICE ARE NOT so likely to girdle and kill young fruit trees during the winter if all grass and trash are kept away from the base of the trees.

▲ ▲ ▲

COST OF ANTI-FREEZE for the tractor radiator is cheap insurance against a cracked engine block or a bursted radiator. You can forget, or pipes can become clogged, if water is used.

▲ ▲ ▲

FIFTY-POUND PIGS made the fastest gains when confined without exercise in four-year tests at the Indiana station. Let the brood sows and tail-enders glean the fields if you have enough of them.

▲ ▲ ▲

TWO NEW FEEDS have special uses. Urea can be fed only to cattle and sheep. It may be actually poisonous to hogs. APF is necessary only for hogs and poultry. Cattle and sheep produce their own APF, or Vitamin B-12, in one of their several stomachs.

▲ ▲ ▲

LATE FALL PLOWING for corn avoids some of the disadvantages of early fall plowing. The ground stays rough and resists both washing and blowing. The tendency to "burn," as farmers call it, is somewhat less than on early plowed land.

▲ ▲ ▲

HAY CHAFF becomes dirt in the milk and shows up in the sediment test. To keep milk free of sediment, Purdue University dairy-

men recommend these steps: (1) Keep cows clipped on udder, flanks, belly and tail; (2) brush the cows before milking; (3) brush your own clothes before milking starts, and (4) feed dusty or chaffy hay only after milking is done.

▲ ▲ ▲

NITROGEN fertilizer for pastures can be applied now, says Arnold W. Klemme, of the Missouri College of Agriculture. He recommends 100 to 150 pounds per acre of ammonium nitrate or its equivalent in other nitrogen carriers. Work the fertilizer into the soil as much as you can.

▲ ▲ ▲

A CORN YIELD of 100 bushels per acre requires 19 to 24 inches of rain, according to estimates of crop specialists. Out of an average annual rainfall of 31 inches, a 100-bushel crop leaves 7 to 12 inches for weeds, evaporation and run-off. Save all the water you can if you want big corn yields.

Chain around bull's horns and thru nose-ring helps in handling and tying, discourages fence-crawling, says Russell D. Sheckler, Jefferson county, Iowa.

To Make Loans On Grain Dryers

A new loan program to help farmers buy grain dryers has been announced by the U. S. Department of Agriculture.

It's part of the government's plan to help along price-support programs by boosting farm storage of corn and other grains.

Dryer loans will be made by banks or other approved lenders, and guaranteed by CCC. Or in some cases they may be made by CCC itself. They'll be made only on new mobile-type equipment, to be used on farms having storage facilities adapted to artificial drying of grain.

Loans will cover up to 75 per cent of the delivered cost of the dryers. They will be secured by chattel mortgages, and will run for three years at 4 per cent.

Applications for the loans will be accepted thru June 30, 1950. They'll be made to groups as well as to individuals. If you're interested, check with your county FMA (AAA) committee.

New Corn Crop Is Dry And Heavy

High moisture will not delay sealing of the 1949 corn crop. Average moisture content of Iowa corn on October 10 was 19.6 per cent. This is the lowest moisture content in 10 years. Maximum percentage for sealing is 20.5.

The annual corn moisture test is taken by the weather division of the Iowa Department of Agriculture. Samples are sent in by farmers in every Iowa county.

Dryest corn this year is in central and north-central Iowa. Wettest corn is in northeast Iowa and in southwest Iowa. This is a little unusual.

Southwest Iowa usually has the dryest corn in October. But this year temperatures in central and north-central Iowa were higher than in southern Iowa much of the time. This advanced the corn crop in that area.

Test weight per measured bushel on October 10 was 56.9 pounds, which is about the highest October test weight on record.

disease resistance

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Sure—you vaccinate pigs; but you can't vaccinate corn to prevent disease. You don't have to worry though, when you plant Funk's G-Hybrids—because you get *bred-in* ability to resist the many rots, wilts, blights and smut that attack weak or non-resistant plants. If plants are injured by weather or insects, in 5-Star Funk's G-Hybrids, damaged areas are quickly "corked off" and healed before rots can get a foothold and seriously hurt the plant. It's another standout Star Quality. Order your 5-Star Funk's G-Hybrid seed corn now.

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D-X & DIAMOND LUBRICANTS
D-X, DIAMOND & FAULTLESS GREASES

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Twenty bushels or more per acre on the ground, and Richard Vosika, Pocahontas county, Iowa, has 180 acres of corn. He says he will either rent stalks to a cattle feeder or hire help to pick up corn.

"I Only Made Six Loads Of Hay"

Your Farm Needs To Fit Crops And Livestock Together If It's To Pay Out

By Francis Kutish

You're a good hog raiser. But how's your pasture and hay? And how do you fit hogs, cattle, crops together to make a winning combination? Every season, Iowa farmers visit with each other to argue about farm management. Here is a report of one of these "farm management" tours. It will show you something about your own place.

THE sign at the driveway said: "Farm Tour." So we knew this was the Ralph Long farm, where the Ringgold county farm management field day was being held.

As we drove into the yard, we noticed a group of farmers gathered around the machine shed. Two large sheets of cardboard were tacked against the shed.

One was a rough map showing the location of fields on the Long farm. The other showed the livestock raised, the amount of feed raised, the returns per dollar of feed fed, and the power and equipment cost per acre for 1948.

A tall man with graying hair was explaining the purpose of a farm management field day. Said Charles Greenlee, district farm management specialist from Iowa State College:

"We don't want to look at each specific enterprise and try to figure out what's the matter with it. Instead, we want to look at the farm business as a whole. Because it's the amount of money you make off your whole business that counts, not just how much you make off hogs or cattle or something else alone."

Then Greenlee turned to Ralph Long. "When did you start farming, Ralph?" he asked.

"I bought this 160-acre farm in 1946," Long replied. "It was a poor farm. I only made six loads of hay off it the first year.

"So, the first thing I did was to set out to make the land return more. I started by working out a cropping plan with the help of the Soil Conservation Service."

"What crops did you raise this year?" somebody asked.

Long turned to one of the cardboard sheets on the wall and began to point to the different fields. All told, he had 28 acres of corn, 20 acres of oats, 50 acres of hay, 11 acres of pasture, 8 acres of logs.

The ridge land was farmed on a three-year rotation of corn, oats and hay. On the steeper slopes, the rotation was corn, oats and two years of hay in strips.

"Do you terrace?" a young farmer asked.

"Only on steep slopes," said Long. "I prefer strip farming. I think it will hold the land on the ridges that aren't too steep. But I don't like ditches, either. So, if strip farming won't work, I'll go to more terraces."

Then the talk turned to the livestock end of the business. "How many hogs do you raise?" somebody asked.

"Around a hundred head each year," Long replied. "I generally raise spring and fall litters. The first come in February. I aim to get them on the early September market. The next batch comes in early September. I aim to get them on the March market."

A tall farmer shot another question at Long: "How did you happen to decide to raise 100 head of hogs? Why not more?"

Long explained the hogs are fitted to the corn crop. He said: "I figure that hogs are about the best way of marketing corn an Iowa farmer has. So I try to sell all my corn thru my hogs."

He pointed to a pasture on the

opposite hill. "Those 20 beef cows over there are the livestock which market my roughage.

"Those cows don't get any corn. They calve in April. Then I wean the calves about March 1 of the next year. And I sell them as feeder calves the next spring. If I have a big corn crop, I may feed them out the next summer. But, year in and year out, I aim to market as much of my corn thru my hogs as I can."

Then the talk turned to some haystacks in the field. A young farmer asked: "How do you get your hay in for the cattle?"

The cattle go out to the hay, Long explained. "I feed them out of field stacks all winter," he said. "Those cows never see a shed."

Reason for that, said Long, is that he wanted to hold down costs as much as possible, and have the manure on the fields.

Then the talk turned to the home. Long explained that he planned to give the house priority on the next money he spent. A water system and a new foundation are next in line for spending.

He admitted this would put off some of the business spending, but he figured that a farm was also a place to live.

Then the group toured the farm, visiting terraces and strip crops. They looked at the pasture, where a crop of corn had been taken off and the field seeded back into a more productive mixture of alfalfa, clover, timothy and brome.

Upon return to the buildings, H. B. Howell, extension farm management specialist from Iowa State College, summed up the tour. He said there were three problems in southern Iowa:

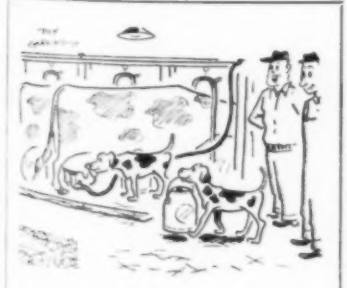
"We still don't know how well our improved pastures will hold up in dry weather," Howell said. "We know they're better than blue grass. But how much roughage reserve should we carry if we run into a dry spell?"

The second problem is this: Is a cow herd the best way to handle roughage on a southern Iowa farm?

If you ran into a dry spell where you just had cows and sold the calves in the spring, said Howell, chances are you would have to sell some of your cows. With cows and yearlings, you could take up some of the slack by cutting down on the number of yearlings.

Howell pointed out the third problem: How to maintain an adequate volume of business on this size farm. That means increasing corn acreage by building up our land thru grass rotations.

Corn is really the high-profit crop, and gives volume in a short time, Howell said. So the purpose of the grass in the rotation is to maintain yields to get a greater total amount of feed.



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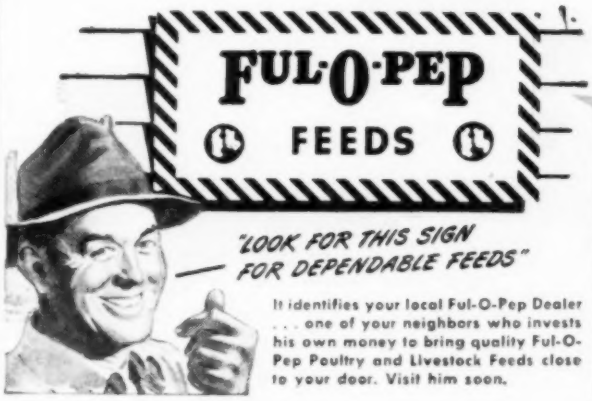
†REG. U. S. PAT. OFF.



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Fresh air, lots of sunlight, mean healthy dairy calves, says Art Ruen, Winneshiek county, Iowa. But he avoids night drafts by closing adjustable pen windows.

OUTSIDE STUFF

THANK goodness, Iowa farmers had hybrid corn this fall! The "big wind" plus the borer infestation would have really leveled things if our fields had been planted to open-pollinated corn.

• • •

I'VE been looking for someone with a dryer who got out early and picked and dried his corn. I talked to several after the wind who wish they had done that.

• • •

BUT, as Milton Chadima, Johnson county, Iowa, says, you need things a little more handy if you are going to dry corn as a matter of routine each fall.

• • •

CHADIMA has dried corn the last three falls. "We need cribs designed especially for dryers, and we need improvements on some dryers. We also need more fan on most dryers. You have enough heat, but it takes lots more air than some dryers put out," he says.

• • •

RAYMOND Schraeder, Benton county, Iowa, dried corn in 1946, beat the market with No. 2 corn, and made some money. "But it costs three to five gallons of fuel per hour, plus your tractor on the fan, plus the full time of one man—so you don't do things like that unless you have to," is the way he puts it.

• • •

LAWRENCE Boening, Mitchell county, Iowa, dairyman, is sold on the merits of his new barn cleaner. He says it really saves time and work.

• • •

NOW that his barn is rearranged and modernized, it probably costs Boening less to produce good milk. And that is a factor that all dairymen are interested in.

• • •

AS CHET Scoby, Kossuth county, Iowa, said in his talk at the annual DHIA banquet, perhaps dairymen should consider a saving in the cost of milk, namely, a saving in costs of feed, labor, housing, handling, worth some small sacrifice in total pounds of production.—W. D. Inman.

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Takes Tricks To Trap A Fox

This Wily Animal Is Hard To Catch, But You Can Do It If You're Careful

Trapping foxes can be fun and profitable—if you know the tricks. In this article, B. G. Roberts passes along some of the tips he's picked up in his years of matching wits with one of the slyest of animals.

MAKE no mistake about it, the fox is smart. He is famed, and rightly so, for his ability to take care of himself. And he's especially good at avoiding traps.

But the fox can be caught. If you have the right equipment. And if you remember that you're dealing with the most suspicious fur-bearer there is.

A fox isn't very hard to hold if the trap catches above the pads in his toes. A common No. 1½ trap will work if it gets the right grip. But a small trap often will not pinch the toes.

For these reasons, I would advise no trap smaller than a No. 2. A No. 2 or No. 3 jump-trap is easy to conceal, so either is good.

A fox will avoid anything that looks like a trap, or anything that carries human scent. So I boil all of my fox traps in clean water for half an hour, then hang them up or bury them for a few days.

Clean canvas or leather gloves should be worn at all times while you're handling or setting fox traps. Neither the trap nor anything near it should be touched with bare hands.

Also, rubber footwear leaves less human scent than leather. I like to wear rubber boots or shoes while setting my fox traps and tending to them.

One of the best fox sets I have ever used is made as follows: Find a large rock or small stump near a fox trail. Dig a bed for your trap about a foot from this "scent post."

If you're trapping in fairly open country, your trap can be fastened to a steel stake. This should be about 16 inches long, with one end sharpened and a hole or eye at the other end. If the area is brushy, so the animal will hang up before going far, a two-pronged steel drag may be used.

If a stake is used, wire the trap chain to it and drive it out of sight in the hole you've dug. If you use a drag, wrap the chain around it and place it in the bottom of the hole.

Next, the trap is placed on top of the stake or drag, with a piece of cloth or waxed paper over the pan, to keep dirt from getting under the pan. This pan cover should fit just inside the jaws of the trap.

Then cover the trap carefully with fine dirt, being sure that no gravel is left on top of the trap to clog up the jaws. Finally, sprinkle a few drops of fox urine or other good fox lure on the nearby stump or stone.

"Scent sets" such as this also may be made in deep snow. Find a "scent post" the animals have been using. Then fasten your trap to a steel drag and slip trap and drag under the snow beside the "scent post." Brush out marks over the trap.

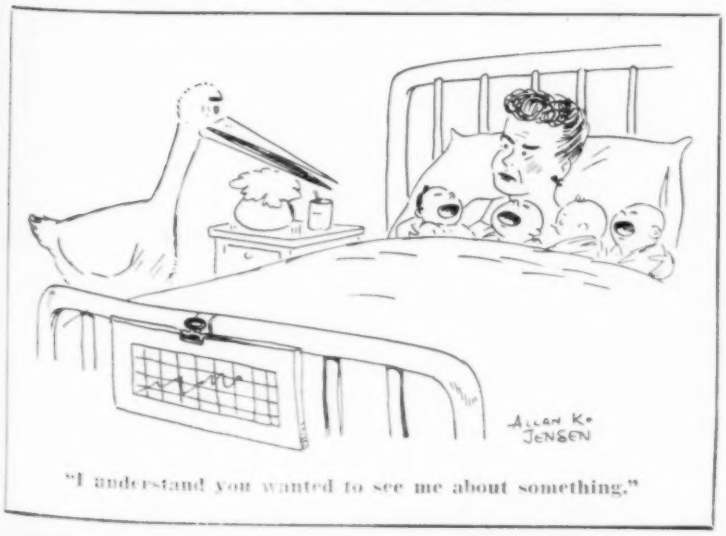
When you set traps in snow, don't stamp around. Just walk up to the set, stand in one place while setting the trap, then walk away so it will look as if you were just traveling along.

A good bait set for foxes can be made by finding an evergreen with thick, bushy top near the trail. Dig a bed about a foot from the tree and on the side next to the trail. An ordinary fence staple can be used to fasten the trap chain to a root of the tree.

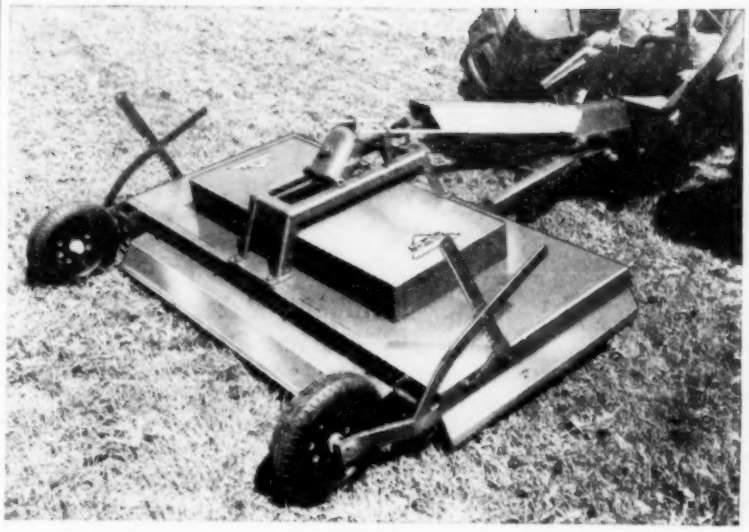
Set your trap in the hole and cover trap, chain and staple with needles from the tree. Scatter bits of lard cracklings, or small pieces of rabbit or other flesh bait, between the trap and the tree. Then put a few drops of fox urine on the tree a foot from the ground and on the side next to the trap.

Old hay or straw stacks in open fields make good locations for bait traps, since foxes look for mice in such places. Dig a hole 12 inches wide and 18 inches high into the stack for about two feet.

Then set the trap back into the hole and cover it with chaff. The trap chain is wired to a small pole, which is pushed out of sight into the stack. The bait is placed back in the hole beyond the trap. Half a rabbit or fowl makes good bait for such a set.



"I understand you wanted to see me about something."



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Hampton, Mott Imp. Co.
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Iowa City, Slager's Hardware & Imp.
Iowa Falls, I. D. McClure Co.

Jefferson, George Neinecke, Jr.

LaPorte City, Leo Arnett, Imp.
Laurens, Laurens Imp. Co.

Mashalltown, Cent. Iowa Farm Store
Mt. Pleasant, C. & R. Farm Store
Mason City, R. L. Dixon Imp. Co.
Muscatine, Starker Farmer Supply

Newton, Neals Imp. Co.

Onawa, Wright's

Perry, Burnett Tractor & Equipment
Pocahontas, Donahue Imp. Co.

Radcliffe, E. A. Nelson Imp.
Red Oak, Phelps Imp. Co.
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Sioux City, Farmers Union Co-op.
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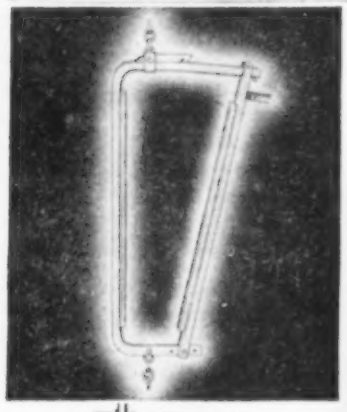

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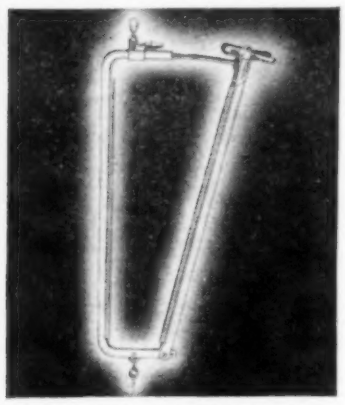
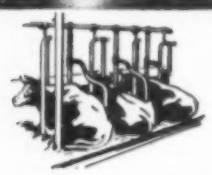
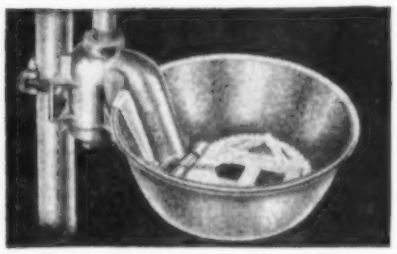


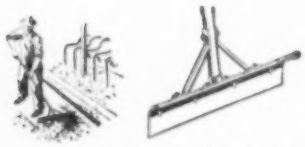


HUDSON STANDARD STANCHION (above) A favorite with thousands of dairymen. Easy to install. Latch is easy to operate, trouble-proof and cow-proof. Hinge never wears out. Made of high carbon, rust-resisting steel, with heavy steel fittings.

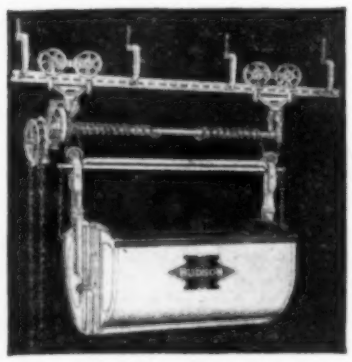
HUDSON MASTER STANCHION Very strong. Impossible for cows to open, yet easy to operate. Simple squeeze of one hand will open or close. Complete cow freedom; single chain. Adjustable to any size cow. Comes with or without wood liner.



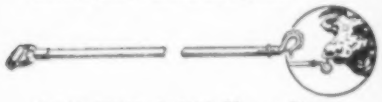
HUDSON STEEL WATER BOWLS Step up milk yield—experiments at Iowa Agriculture Experiment Station show that 10 cows with 5 water bowls equal 11 cows without any! This bowl is made of deep drawn steel, hot galvanized. Easy to clean. Bowls nest, easy to sterilize. Hudson Perfect Valve won't rust—gives no trouble—*no pounding—no splashing*. Cast iron bowl model also available.



HUDSON BARN SCRAPER For cleaning barn floors, poultry houses, garages, creameries; also scraping snow. Heavy gauge steel. Reversible blade.



BALL BEARING LITTER CARRIER Moves on track at touch of a hand. Can be pushed by a 10 year old boy! Six inch wheels means slower wear on tread; much longer wheel life. Each wheel rolls on two annular ball bearings. Operates on rigid track. Six bushel and twelve bushel models.



NEVER TRUST A BULL Use a *Hudson Bull Staff*. Pull on ring near head of staff hooks bull's nose. To release, simply pull on snap ring in handle. Made of high carbon steel tubing.

HUDSON MILK STOOL Also for use in garages, camps, stores and around the home. Comfortable; will not tip.

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Farm and Feed-Lot

Best Ventilator For Round Crib?

To the Editor: What is the best kind of ventilator to use in the round corn crib, a vertical or horizontal ventilator, or both?—C. M.

Any kind of ventilator helps, say agricultural engineers. But a ventilator running crosswise thru the crib (horizontal) is much more effective in drying corn than a ventilator running up-and-down.

A vertical ventilator in the center, with horizontal ventilators to the outside is very good. When the ventilator is only vertical, not enough air moves thru the ventilator. AAA recommendations for sealing corn are that a horizontal ventilator be placed thru a round crib, one for each four-foot ring of snow-fence.

Which Cutting Of Hay Is Best?

To the Editor: What is the difference in feed value between different cuttings of alfalfa hay?—Mrs. C. L., Marshall County, Iowa.

There is considerable difference between feed values of various cuttings. First cutting of alfalfa, even if it has good color, is much more stemmy and has a lot more fiber than later cuttings.

Average analysis of alfalfa hay (all cuttings) shows about 28.9 per cent fiber. Very leafy, green hay, such as third or fourth cutting, may have as low as 22 per cent fiber. Protein content for average alfalfa hay is 14.8 per cent. Fine, leafy hay will have 17.2 per cent.

It would be hard to put the difference in dollars and cents. Hogs and poultry can use the fine, leafy hay much better. But for mature cattle, with their greater capacity to consume roughage, the difference may not be so great.

More Income Per DHIA Cow

Dairy Herd Improvement Association members in Iowa received $20 more income above feed costs per cow in 1949 than in 1948.

That comparison was made in the annual DHIA report, which shows returns per cow over feed costs in 1949 at $188.69, compared with $168.80 last year.

The 39,036 cows in 1,778 Iowa herds produced an average of 337 pounds of fat and 8,480 pounds of milk per cow. That compares with Iowa's average production of about 200 pounds of butterfat and 5,000 pounds of milk per cow per year.

Stalk-Burning Won't Control Borers

Burning corn stalks is not the answer to the corn borer problem, say Iowa State College entomologists.

Burning costs too much, it does not kill enough borers, valuable organic matter and fertilizer are destroyed, and the practice promotes erosion, the college men say.

Ordinary raking and burning will kill only half the borers, says ISC's Harold Gunderson. The ones that survive will be more than enough to load your corn with borer eggs next year.

Gunderson says you'll be ahead to save the cost of raking and burning and spend it on spraying.

Even if stalk-burning would control borers, it still would be a losing proposition from a soil management standpoint. Organic matter and nitrogen are lost.

Value of the lost organic matter can't be measured. But the nitrogen that escapes thru burning probably is equal to the cost of spraying to kill borers.

You Need All Your Fingers

"That's a good idea," said Dale Gore, Marion county, Iowa, as his wife showed him the corn picker accident warning in October 15 issue of Wallaces' Farmer and Iowa Homestead. He knows what he's talking about, too. A picker chopped the fingers off his left hand last year. "You can't be too careful," says Gore.

Calves can be encouraged to eat grain by rubbing some into their mouths, says Gene Woodcock, Bremer county, Iowa, dairyman.

Future Cows Need Good Start

Feeding Calves For The Best Growth Is Mighty Important, Dairymen Agree

HOW good your future dairy cows will be depends upon the start you give them as calves.

Farmers raise their calves in many different ways. Some like to take a calf away from its mother the first day. Others leave calves with the cows for a while.

Whichever you do, remember that the calf needs the colostrum, or first milk. Missouri experiments show that about a third of the calves will die if they don't get colostrum. So dairy specialists recommend leaving the calf with its dam for two or three days.

Maybe there are other advantages in leaving the calf with its mother. "I see," said one farmer, "that putting some of the cow's cud into the calf's mouth is suggested now."

The idea behind that is to make sure the bacteria needed for digestion gets into the young calf's paunch. A calf that stays with its mother usually will pick up the rumen bacteria it needs.

Skim-milk feeding is the time-honored way to raise dairy calves. M. A. Woodcock, Bremer county, Iowa, follows the approved practice with his Holsteins. He bucket-feeds whole milk until calves are at least three weeks old. Then he shifts gradually until calves are completely on skim-milk at four to five weeks.

But skim-milk calves often get pot-bellied. This may be explained by too fast drinking. Experiments have shown that some of the milk spills over into the rumen instead of going on into the fourth stomach. Then it sours, causing the unthrifty symptoms.

Nipple pails will prevent this. And farmers like them for other reasons. "I had some calves that wouldn't drink very well," said Archie McNeilus, Butler county, Iowa. "Only a quart or so, and they'd quit. So I got pails with nipples and now they do all right."

Many dairymen have turned to calf meals or pellets. Some because they sell whole milk, others because it's more convenient.

"We've used pellets for our Holstein calves," said Elso Reints, of Butler county, Iowa. "You give whole milk for two or three weeks, then change to water and pellets."

Ralph Bright, of Hardin county, Iowa, likes pellets, too, but he gets calves onto them a little differently. He never bucket-feeds his Brown Swiss calves. They're allowed to suck for a month or two. But they have pellets and hay before them from the start. When they get to eating well, Bright weans them.

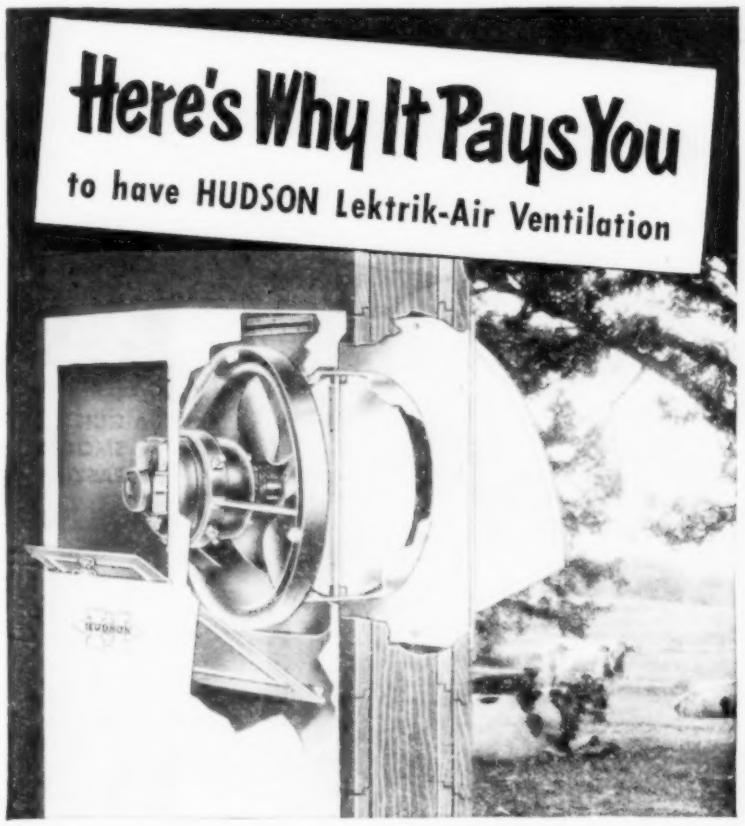
Like many others, Bright prefers whole oats as the first grain for young calves—whole oats plus shelled corn. "No calf gets to eating more than a pound of pellets per day," he said. So, when they need more feed, he adds grain. His calves stay on whole corn, oats and pellets until they're six months old.

Gene Woodcock, who has his calves on skim-milk, quits feeding whole grain at two months. Then gradually shifts to a ground-feed ration advised for growing calves.

"I let them have all the ground feed they want until they're six months old," said Gene. "Then I hold them down to four pounds a day until they are a year old."

What about hay? Calves will start picking at it when they're only a few days old. Woodcock stressed its importance. "Hay—and silage after they're yearlings—will put more barrel on them," he said. "And you can get along with even less grain."

Hay helps stop scours. And good hay is a source of Vitamin A. Speaking of vitamins, calves—especially winter calves — need Vitamin D, too. The sunshine vitamin is easy to add to the ration. One way is to use an irradiated product, which you can get from your feed dealer.



MORE MILK When a cow is too cold or too hot, her milk flow naturally falls off. With Hudson Lektrik-Air Ventilation, barn is always well-ventilated, preventing dampness as well as excessive heat or cold.

BETTER QUALITY MILK Enough clean, fresh air will eliminate as much or more of a cow's waste as do other forms of elimination. Fresh air keeps milk producing organs in best of condition. Consequently, the milk given is richer in cream, higher in price.

GREATER HERD HEALTH Warm, damp air makes an ideal breeding ground for tuberculosis and promotes chills and colds. Hudson Lektrik-Air Ventilators, by providing proper ventilation, do much to maintain herd health.

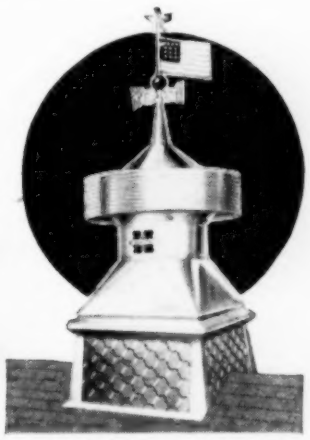
MORE YEARS OF PRODUCTION A cow, like a human being, living under favorable conditions will live longer and be healthier. Cows half-starved for fresh air have a short production life.

PROTECTS BARNS An average 1,000 lb. cow throws off about ¾ lb. of moisture an hour, 18 lbs. every 24 hours. If not removed, this moisture will saturate ceilings, joists and walls. Ceilings will warp and rot. Steel will rust rapidly. Hudson ventilation will stop this loss.

GREATER FEED SAVINGS In a damp, foul stable cows eat much more feed to gain comfort. Up to half of it passes through the cow's system unused. This feed loss can be eliminated if fresh, pure water and air are available in abundance.

Protect
Buildings, Animals, and Feed with HUDSON Roof Ventilators

HUDSON TAPER BASE VENTILATOR For buildings of moderate height, such as hog houses, poultry houses, barns, other buildings. Construction details identical with one at right except for shingle base.



REVOLVING HEAD VENTILATOR Highly popular, low-priced unit for smaller farm buildings. Ideal for unfavorable draft conditions. Turns constantly against wind. *No back draft.*

HUDSON SHINGLE BASE VENTILATOR Latest type. Beautifully proportioned and ruggedly built of heavy galvanized steel. Provides maximum ventilation. Windband heavily corrugated for added strength with *no back draft*. Ornaments are 3-way star, ruby ball and flag vane.

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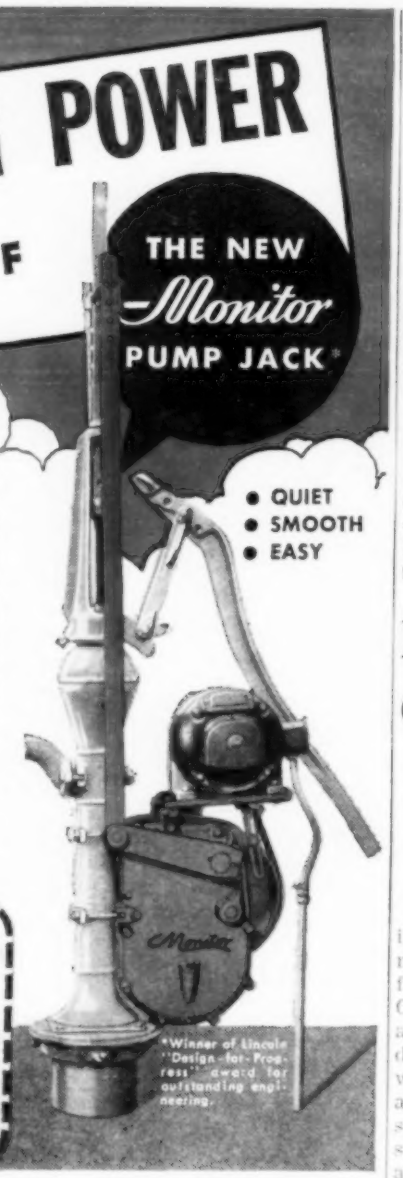

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Roy F. Hewitt, general manager of the big Barnstable & Ware farm store in Hillsboro, Montgomery County, Ill., is shown behind the counter in his store.

Proper Trace Minerals Needed, Dealer Says . . .

IF LIVESTOCK and poultry are to grow, thrive and produce at a profit, then they need the proper "trace" as well as the "base" minerals, believes Roy F. Hewitt, general manager of Barnstable & Ware, of Hillsboro, Ill.

"That's why," the popular store manager says, "I'm glad we were able to get the Pay-U line and can recommend Pay-U Minerals to our farmers. Pay-U contains such trace minerals as iodine, iron, cobalt, copper, manganese, magnesium and potassium, as well as the important base minerals—calcium, phosphorus and salt.

"Thus, Pay-U helps make up any mineral deficiency in the feed that might exist and provide a complete mineral ration."

Roy handles many other Pay-U products, as well as minerals. In the photograph above, he is shown holding a bottle of Pay-U Drinking Water Tablets in his right hand and a can of Pay-U Lice, Mite and Mange Powder in his left.

"When a farmer uses these two products on his hens," he says, "you can bet he's after egg profits! Pay-U Drinking Water Tablets sanitizes drinking water, helps kill germs. And our Lice, Mite and Mange Powder is sudden death to lice, mites and other insects."

Hundreds of feed stores, elevators, hatcheries and drug stores keep Pay-U products on hand for farmers. Ask your dealer for Pay-U Minerals and other Pay-U products. If he cannot supply you, write Pay-U Laboratories, Inc., Quincy, Ill.

Good forge is made of bricks on concrete foundation. Willis Hinkson, Henry county, Iowa, uses forge a great deal in his farm shop.

Heavy Hog Run Coming

Where are Iowa farm prices headed this winter? Here's how Francis Kutish, Iowa State College economist, sees the immediate future:

CORN: The problem of salvaging corn on the ground is uppermost in most western corn belt farmers' minds these days. The October windstorm raised the amount of corn which will be fed during the next few months. It will cut the amount of corn available for sale next spring. But the supply of corn is large enough to set a ceiling on corn prices at around loan levels.

CATTLE: More cattle will head for the spring market as a result of the windstorm—fewer for next fall's market. The increased demand for feeder cattle to clean up corn on the ground probably will prevent any sharp drop in feeder cattle prices this fall.

HOGS: Further price declines are in prospect this fall. That is the normal seasonal pattern as hogs roll to market in rising numbers during the coming weeks. A lot of hogs would be held back to salvage corn on the ground and fed to heavier weights—if farmers were not so jittery over prices. Even so, there will be some tendency to do this. Farmers with late spring pigs are in the best position to salvage down-corn with hogs.

POULTRY: Lower egg prices will soon set in. Don't keep more chickens than you can handle efficiently. Production is higher and business weaker than a year ago.

Broiler output continues at a high level. Broiler prices probably will drop more than usual as winter advances. Altho feed costs are down, broiler profits won't be as good as a year ago.

PROTEIN FEEDS: Higher protein feed prices are in prospect for the year ahead. Supplies will fall 5 to 10 per cent short of last year. Demand will be up somewhat—due to more hogs and chickens. Look for the usual seasonal swing in protein feed prices.

FERTILIZER: Farmers used a record amount of fertilizer last year. Supplies should be even larger this year. So farmers should be able to get the kind and amount of fertilizer they want.

DON'T WAIT

for these Telltale Signs of Trace Mineral Deficiencies

FOR LACK OF COBALT, livestock are listless, emaciated, anemic, thriftless. They don't eat . . . have poor appearance, rough coat, watery eyes.

FOR LACK OF MANGANESE, there is failure in reproduction and lactation and poor bone growth. Bone development is weak.

FOR LACK OF IRON AND COPPER, there is nutritional anemia, stunted growth. Prolonged shortages often cause death. Sows farrow small, weak litters, with high losses of suckling pigs.

FOR LACK OF IODINE, there is goiter or "big neck." Poor reproduction . . . general unthriftiness. Causes weak, goitrous, hairless new-born animals.

BE ON THE SAFE SIDE
Feed MORTON'S *Free Choice* Trace Mineralized Salt

Guard your profits! Protect your animals against these costly trace mineral deficiencies. Feed livestock Morton's Trace Mineralized Salt.

Trace minerals are important to the entire enzyme, hormone and vitamin functions of the body—the basic life activities. They safeguard against trace mineral deficiencies as well as promote health, thrift, lower feeding costs, faster gains and greater profit. Morton's Free Choice Trace Mineralized Salt costs only a few cents more per animal per year than salt alone. It's like a low-cost insurance policy covering all your livestock. Feed Morton's Trace Mineralized Salt free choice . . . ask for it by name.

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Get all the facts on feeding trace mineralized salt. Write for booklet on feeding salt and important new folders on trace minerals. Mailed free. MORTON SALT COMPANY, P. O. Box 781, Chicago 90, Illinois.

Tips for November

Here's a check list of things to remember this month. It's prepared by farm management specialists at Iowa State College.

▲ ▲ ▲

IT'S TIME to make your final decision on next year's cropping plan. J. J. Wallace, manager of Iowa State College Foundation farms, says advance planning will give you a jump on next year's jobs. Spread lime and rock phosphate on stubble. Check quality and vigor of new seedings.

▲ ▲ ▲

GUARD YOUR HOGS against flu caused by sudden changes in weather. Watch ventilation in hog houses. Avoid piling up of hogs.

▲ ▲ ▲

CHECK BROOD SOW rations for winter. Bernard Collins, Wright county, Iowa, thinks it pays to feed brood sows plenty of alfalfa.

▲ ▲ ▲

FREEZING WEATHER reduces the feed dairy cattle get from pasture. Several dairymen up in northeastern Iowa make allowances in their dairy rations for freezing of pasture grasses.

▲ ▲ ▲

KEEP YOUR HEN HOUSE warm and dry. That's one of the secrets to egg profits, believes Mrs. Walter Boehlje, Cerro Gordo county, Iowa. Insulation and ventilation of the hen house is important.

▲ ▲ ▲

IDLE HORSE BARNS make good farrowing places. Le Roy Wiese, Cedar county, Iowa, remodeled an old horse barn into a farrowing house with room for 25 litters. Straw poked between the 2x4's insulates the sides against winter winds. Use movable panels for the pens. Then the old barn will make a shed for hogs in the fall.

DEEP LITTER saves the extra labor of cleaning the hen house frequently, agrees Mrs. John Ingels, Fayette county, Iowa. Mrs. Ingels also uses community nests four feet long. She says she gets less egg breakage than with individual nests. A cloth hangs over the front of the community nest, to darken it.

▲ ▲ ▲

GATHER AND CLEAN all garden tools. Rust does a lot of damage to tools in the winter when they are not being used. Use emery cloth or steel-wool to polish metal parts. Rub motor oil or waste oil on all metal parts. Hang with the handles down.

▲ ▲ ▲

REPAIR and put into first-class shape all farm machinery during the winter months. Start with the early spring machines first. Schedule all major overhaul jobs with implement shops early in the season. Myron Anderson, Hamilton county, Iowa, figures this is one way to make sure he is ready to go in the spring.

▲ ▲ ▲

ADJUST MEALS to shortened days and children away from home. Make breakfast as appetizing and nutritious as possible, to stimulate appetites. Noon meals should give about one-third of the day's calories. Include milk and a hot dish, whether eaten at home or school. Adjust family work so a hearty evening meal can be served as early as possible—say 5:30 or 6 p. m.

▲ ▲ ▲

BROOD SOWS should be flushed before breeding. George Hora, Washington county, Iowa, says it pays. Give them a full feed of corn along with plenty of protein feed.

"Operation Mercy"

World War II ended more than four years ago. But to thousands of folks in Europe, Asia and the Middle-East, the hunger that follows war still is a very real thing.

That's why thousands of Iowa farm people again are being asked to help in the "Operation Mercy" campaign of Christian Rural Overseas Program (CROP).

The 1949 CROP drive gets under way November 6, with special services in hundreds of country churches. The next week, November 7-13, workers will make a farm-to-farm canvass for pledges of farm products or cash in lieu of those products.

Sponsoring the drive are Church World Service (22 Protestant groups), Catholic War Relief, and Lutheran World Relief. With your help, they'll be able to send millions of pounds of food to the refugees, orphans, aged and infirm in foreign lands.

Six modern farm homes

FOR BETTER FARM LIVING

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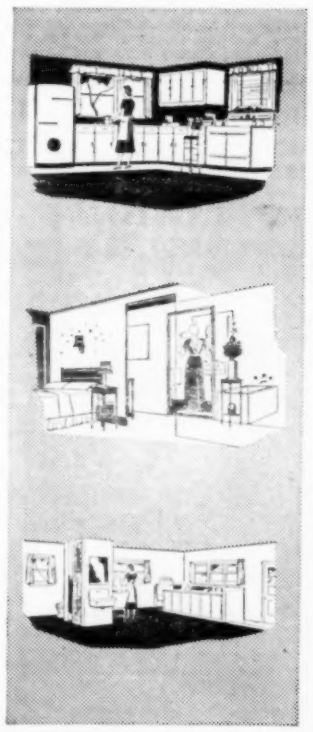

Ready for your inspection are six new farm home designs—offering the best in modern living comforts. Now farm families can really enjoy pleasant, practical, convenient, up-to-date homes.

Home planning authorities designed these homes. Experienced architects working with demonstration agents and home economists have provided features that fulfill the desires for better living on the farm.

The kitchens have been thoughtfully planned for brightness and step-saving convenience. Everything is close at hand . . . storage space is abundant . . . working surfaces are of proper height and well lighted . . . refrigerator, range and sink are ideally positioned.

These model kitchens are easy to keep immaculate because an adjoining service room provides needed space for laundering, canning and other chores . . . facilities for the men to clean up and a place to leave work clothes and boots. Halls leading to bedrooms and bath keep family traffic out of kitchen and living room.

The bathrooms are truly modern . . . the bedrooms are airy and cheerful with good closet space . . . and the living rooms are planned for happy family life and pleasant entertaining.

Your local 4-Square Lumber Dealer has the six new homes, with illustrations and floor plans ready for your study. He invites you to use them freely. Blueprints are available when you decide to build.

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LUMBER AND SERVICES

FREE BOOKLET
showing all 6 houses and floor plans
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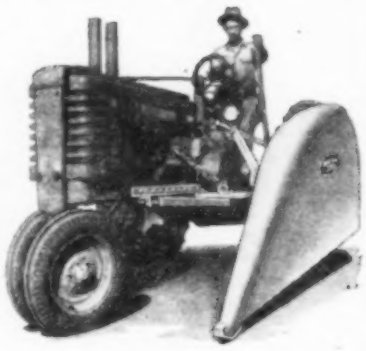
with the New KOYKER Corn-Saver-Shield

Now it's easy to pick corn "down" from wind, corn borer, and root rot damage. The Koyker Corn-Saver Shield does it for you.

It rides over the rear tractor wheel in front of the picker. Its long snout slides under fallen, bent, and leaning stalks. It straightens them up and disentangles them.

The Shield then guides corn into the picker or into the next row to be picked. It nearly eliminates trampling. It can pay for itself in a half day in corn saved!

Order today from implement dealers, or direct. Production limited. Price $47.45 F.O.B. HULL, IOWA. Specify right or left side mounting.



SAVES CORN blown down by wind or weakened by corn borers and root rot. Enables picker to get maximum number of ears. Picks messy fields clean.

the IDEAL COMBINATION for Storing EAR CORN and GRAIN in MINUTES with ONE MAN!

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2 Tilting Hopper . . . edge only 11" high, allows maximum body dump. Attaches or detaches to elevator in seconds.

3 Roof Extension Elevator . . . permits portable type to load into high bins. Powered through and attaches to upper end of elevator.

4 New Hydraulic Wagon Hoist . . . pump can be powered by elevator engine, making complete One Man Operation for storing grain and corn.

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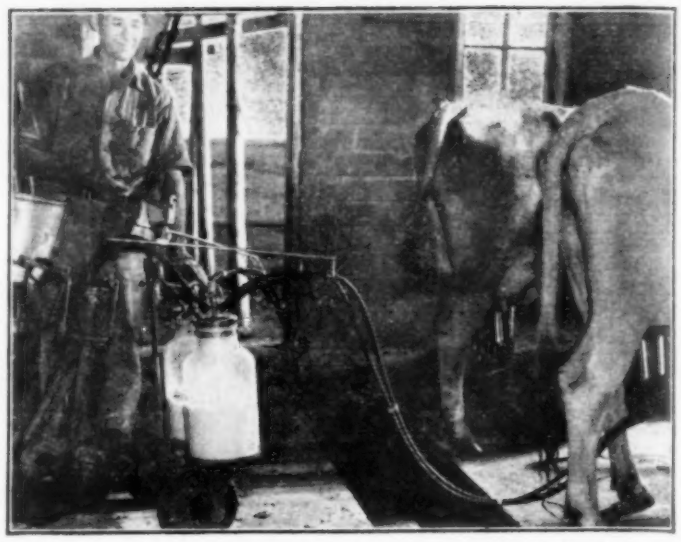


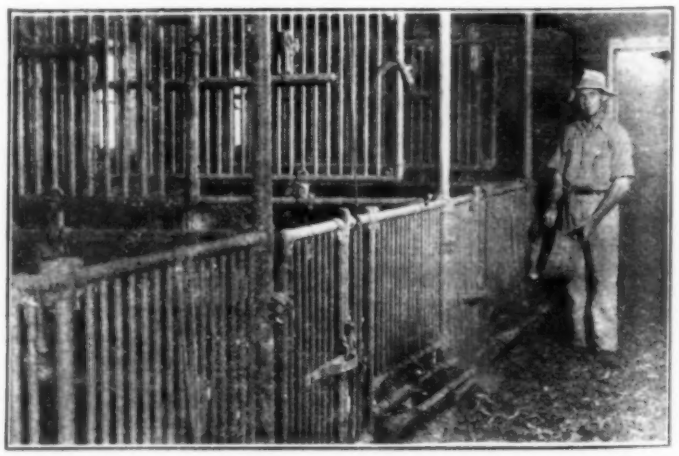
Milking chores are cut to minimum in Ernest Madison's modern dairy barn, Buena Vista county, Iowa. One feature is thermostat-controlled ventilation. Madison milks a 12-cow herd.

Likes A Small Farm

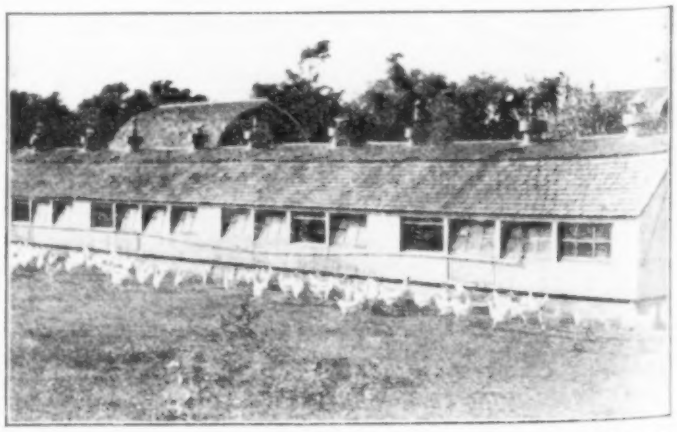
Ernest L. Madison, of Buena Vista county, Iowa, would rather do an intensive job of livestock and poultry farming on 80 acres than spread himself thinner on a place twice that big. He says he can make just as much money, too.

Madison may be short on acres, but he has plenty of everything else. Except grain. His 5,000 turkeys, 400 laying hens and pullets, around 100 pigs, and a dozen cows eat up all the grain raised and some 7,000 or 8,000 bushels a year besides.

A complete set of new, modern buildings, designed for livestock efficiency, has been built since Madison bought the place in 1945. Barn and 24x44-foot hog house are of brick and tile construction. Both have thermostatically controlled ventilation. The hog house especially is the last word in efficiency. Water is piped to individual pens from Madison's deep-well water system. Individual pens are made of iron pipe. Inside floor is concrete, as is a 20-foot-wide feeding apron around the building.



Hog House on Madison farm has pens of iron pipe. Cross-sections swing up to make pens larger, down for farrowing. Water, feed troughs can be reached from outside.



Modern houses handle Madison's flock of 400 layers. This one has gravity water system, supplied from storage tank at end of house. Madison also raises 5,000 turkeys each year.

with
RUST-OLEUM

This Permanent Paint Seals Out Moisture and Air Stops and Prevents Rust on Every Kind of Metal

Gives Economical Protection from Rust to Your Machinery, Tools and Buildings . . . Inside and Out of Doors.

Don't let rust eat up your valuable investment in tools, machinery and fixtures! Now, *Stop* and *Prevent Rust* with Rust-Oleum . . . a permanent paint that actually stops and prevents rust.

● NO SPECIAL PREPARATION
Just wirebrush and scrape all rusted surfaces to remove rust flakes, old paint blisters, oil and grease and the surface is ready to paint with Rust-Oleum. Special rust preventive base of Rust-Oleum penetrates to base metal . . . seals out moisture and air . . . stops and prevents rust.

● SPRAY OR BRUSH
Rust-Oleum is not a grease . . . not an oil. Rust-Oleum is a *paint* that may be brushed on or sprayed on, as you like. Comes ready-mixed and is self-leveling . . . leaves no brush marks. Contains no lead—non-toxic and safe to use around livestock.

● DRIES QUICKLY
Rust-Oleum dries to a hard, permanent elastic finish. Drying time is 4 to 12 hours depending on temperature and humidity.

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Rust-Oleum resists heat, cold, rain, snow, sun, grease, oil, salt, fumes, etc.

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Rust-Oleum is available in all colors and white for use on any metal surface, in the home or in the barn. Rust-Oleum is also available in manufacturers machinery colors to match your tractor or any other piece of farm equipment.

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Farm News Briefs

CATTLE FEEDERS in corn belt states bought 50 per cent more cattle in the July-September period this year than in the same months of 1948. Movement to feed-lots was the largest in 10 years. Iowa increase over last year was 65 per cent.

▲ ▲ ▲

MORE THAN three-fourths (78 per cent) of American farms now are connected to electric power lines. Fifteen years ago, the figure was 11 per cent. High states now are Connecticut, Ohio and Oregon (99 per cent). Low is North Dakota (36 per cent). Iowa farms are 86 per cent electrified.

▲ ▲ ▲

FUTURE FARMERS of America's highest degree—American Farmer—went to six Iowa FFA members at the group's annual convention in Kansas City last month. Iowa winners: Douglas Behrens, Strawberry Point; Leland Denburger, Oskaloosa; Robert Evans, Brooklyn; Donald Henik, Lisbon; Donald Jorgensen, Lake City; Richard Richardson, Mount Ayr.

▲ ▲ ▲

ALFALFA SEED production this year sets a new record of 1,851,400 bushels. That's 78 per cent above last year and 29,000 bushels more than the previous record crop in 1946.

▲ ▲ ▲

PRICE-SUPPORT operations during the fiscal year ending last June 30 caused Commodity Credit Corporation to operate at a loss of nearly 600 millions. CCC's annual report said it made loans, purchase agreements and purchases on farm commodities valued at about 3½ billions.

▲ ▲ ▲

COMING EVENTS: Nov. 3, National Corn Picking Contest (machines), Cedar Rapids; Nov. 6-13, annual CROP foreign relief drive (see page 29); Nov. 26-Dec. 3, International Livestock Exposition, Chicago; Nov. 28-Dec. 1, Iowa Farm Bureau convention, Des Moines; Nov. 28-Dec. 2, elections of Iowa community PMA committeemen; Dec. 3, elections of Iowa county PMA committees; Dec. 11-15, American Farm Bureau convention, Chicago.

FEE ON CORN

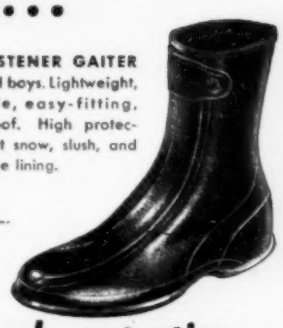
If you haven't been able to deliver 1948 loan or purchase agreement corn to the government, you'll get a storage payment for holding it after October 31.

That's the date by which Commodity Credit Corporation agreed to take delivery on corn under the 1948 price support program. But the big job of building new storage won't be finished by then.

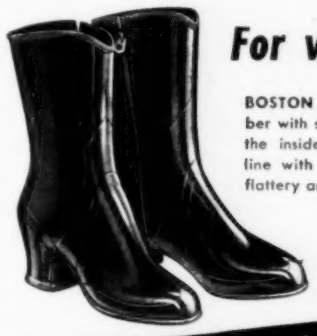
So you'll get a storage fee at the rate of one-twentieth of a cent per bushel for each day you have to hold corn after October 31. The payment will run thru the final date of delivery specified in delivery instructions issued by your county committee.

For rugged construction . . .

SLIDE FASTENER GAITER for men and boys. Lightweight, adaptable, easy-fitting, weatherproof. High protection against snow, slush, and mud. Fleece lining.



For wear and protection . . .



BOSTON BOOT. All-rubber with slide fastener on the inside for a smooth line with ankle-covering flattery and protection.

look for the Farm Favorite--Ball-Band

TRADE MARK

Yes, you *know* you're getting sound, honest footwear quality when you look for the Red Ball trade-mark. For over 50 years Ball-Band has been doing the footwork on the farm . . . a truly tough wear test. For long-wearing construction, for weatherproof comfort and style, follow farm experience and look for the Red Ball.

Look for the RED BALL on the sole

Ball-Band
Weatherproofs

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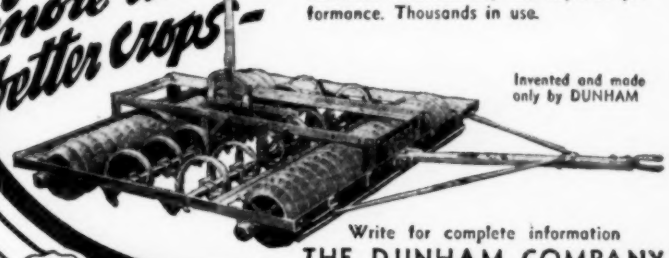
You need THE CULTI-MULCHER (TILLAGE COMBINE) *for more and better crops—*

The Dunham CULTI-MULCHER is unrivaled for properly preparing seed beds--the foundation of all good crops. When you start the fitting job with a CULTI-MULCHER, it's finished in ONE operation! In addition, it is handy for leveling fields, breaking ice and soil crusts, crushing clods, firming loose soil, mulching, etc.

The CULTI-MULCHER is extra-rugged and is designed to assure maximum service, minimum maintenance, and superior performance. Thousands in use.

Invented and made only by DUNHAM



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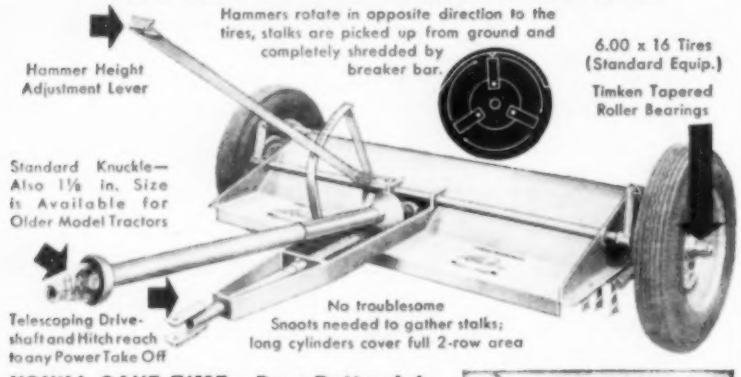
KILL the Corn Borer!

Plow cleaner! Cut your discing time! Get a bigger crop yield! Bank larger profits next year!

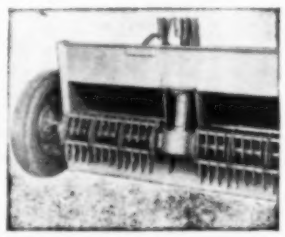
With the FARM-TESTED BANTAM Corn Stalk Shredder

Check *ALL* these "farm-tested" Features



YOU'LL SAVE TIME—Do a Better Job It requires just one trip through the field with the Farm-Tested Bantam Shredder and you're ready for plowing and planting. Fast-turning hammers reduce stalks to fine shreds for clean plowing and improved soil fertility. The Borers die . . . beaten and buried by millions!

HERE'S WHY IT'S BEST—Heavy automotive type construction throughout; all gears sealed and running in oil. Cuts clean on rough ground, rocky or frozen soil. 54 inches of cutting area with *no clogging!* All shafts turn on anti-friction bearings. Hammers replaceable, reversible. Drives from power take off of any 2-bottom plow tractor.



SAFE—72 Shielded hammers revolve at 1450 R. P. M. No exposed gears and no exposed pulleys or belts.

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Corn King quality DOES cost less. Every known essential basic and trace mineral . . . yet popular priced.

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Washington Wire

Will New Farm Law Help You?

Your Share — If You Raise Corn, If You Milk Cows, Or If You Raise Hogs

WASHINGTON, D. C.—Every farmer wants to know—right away—what the new farm law will do for the prices of things he sells in 1950. Here are some of the answers:

CORN GROWER: The new parity is $1.47 per bushel, as compared with the present parity of $1.55. Under the act, you take whichever is higher. That means the corn loan next year will be about the same as this year.

HOG RAISER: New parity is $19 per hundred. Sounds good? Yes, but wait. The secretary of agriculture can support hog prices at any point between 0 and 90 per cent of parity. Which point will he choose?

Suppose he picks 90 per cent of parity. That means he'll have to buy a lot of pork to support the market. Then what does he do with the pork?

He can give it away to schools for lunches, to charitable institutions, or he can trade it abroad—at a loss—for goods we need. That will take a lot of money.

One estimate—a low one—says loss will add up to 169 million dollars for two years. It could cost a lot more.

So the hog raiser doesn't know what kind of supports he'll get. Not yet, anyway.

DAIRYMAN: The new law directs the secretary of agriculture to support dairy products at 75 to 90 per cent of parity. The new parity is $4.41 per hundred for whole milk, 70 cents per pound for butterfat. How does he do it? He buys cheese, butter, dried milk, and stores them.

Then what happens? As with pork, he can give them away to schools for lunches, charitable institutions, or dump abroad. As long as the money holds out.

What happens to egg prices? Parity drops to 49 cents. But the secretary may support the price at anywhere from 0 to 90 per cent.

Where does he put supports? It depends on how many dried eggs he has to buy to keep up the price, how many dried eggs he can sell, and how much money he is allowed to spend.

For wheat and cotton and tobacco — like corn — the future is clear enough next year. You get 90 per cent of parity on loans. And you stick to your allotments—or to your marketing quotas.

Will corn have acreage allotments in 1950? Yes. How much will the cut be? Talk is about a 15 per cent cut, but we'll know for sure in a few weeks.

Will corn farmers vote on marketing quotas? Maybe. Corn supplies are right on the line. The secretary could find good reasons for ordering an election on quotas—or for avoiding an election.

If marketing quotas come up to a farm election, the livestock man will face this prospect:

If quotas carry, and if he doesn't cut corn acreage, he'll have to lock up on the farm the corn grown on the surplus acres. He can't feed or sell that corn without paying a penalty per bushel equal to half the parity price.

How will the Department of Agriculture administer the new

* * * * * *

You Never Had

So Much Old Corn

If you're like the average U. S. corn farmer, you have on hand more old corn than ever before. Even more than in 1940.

Look at the record of old corn carried over on October 1 of various years:

Year	Bushels Carry-Over
1933	386,000,000
1937	65,000,000
1938	362,000,000
1940	644,000,000
1946	173,000,000
1948	125,000,000
1949	815,000,000

It took from 1937 to 1940 to increase the corn supply by 600 million bushels. But it only took one year—from 1948 to 1949—to increase the supply by 700 million.

With another record crop this year, what will corn carry-over look like in 1950? And where will we put it?

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Give LAXOTONE

For Sick Cows. Loss of appetite or refusal to eat usually means a cow is suffering from constipation. LAXOTONE, given dry on the tongue, helps to relieve this condition.

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Easy to put on—patented clamp tightens with screwdriver. Noiseless — no clanking chains. Smooth riding—high tensile, new rubber treads.

Set of 4, complete with 8 detachable steel ice cleats, serves both rear wheels. Send only $1.00. GIVE TIRE SIZE. Upon delivery pay postman 98c plus postage and small C.O.D. charge. Shipping weight 4½ lbs.

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When writing to advertisers, will you please mention this paper.

Brannan is put on spot by congress saying he can put hog supports anywhere between 0 and 90 per cent of parity.

law? Only time can answer this question. But words and actions indicate it will follow this general rule:

Keep supports at or near the maximum levels on products not in surplus supply or subject to production controls. In case of products which are available in surplus supply and not subject to controls, lower supports are indicated.

That would mean prices at 90 per cent of parity in 1950 for wheat, corn, cotton, peanuts, rice and tobacco. All of these products are likely to be subject to acreage allotments or marketing quotas.

Potatoes will stay at this year's 60 per cent of parity. Eggs, which at the present time are a surplus headache, may drop to 75 or 80 per cent from the present 90 per cent.

Flaxseed already has been cut from 90 per cent to 60. Soybeans are likely to be reduced from 90 per cent to perhaps 75 or 80. The lesser grains will be supported in the 70's.

What about hogs? The department is committed to supports at 90 per cent of present parity thru next March 31.

There is strong feeling in the department that hog supports must be at a level which would maintain a fairly reasonable feeding ratio with corn. Otherwise, there might be danger of too much corn being stored under loans and not enough fed to meat animals.

Dairy products are causing considerable concern. Under its present 90 per cent support program, the government is having to buy large quantities of butter and dried milk, and some cheese.

A support price fixed at 90 per cent of the modernized parity price would be higher—in terms of dollars and cents — than the present parity. Higher prices to consumers might force even larger supplies of dairy products into the government's hands.

It is therefore possible that the new support prices for milk and butterfat may be less than 90 per cent of the new formula, but not far from the present support prices in terms of dollars and cents.

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Beautiful catalog gives breeding and performance data plus valuable planting information. Describes our "Dermatizing" process. This exclusive seed treatment gives Maygold Hybrids extra resistance to cold weather and extra protection against soil-borne diseases. Special Booklet on Guatemalan Corn tells of experiments in Antigua, Guatemala and the work Maygold plant breeders are doing with Guatemalan Corns in this country. Both books free, no obligation, write today.

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- Deep kernels, big ears filled to the tips
- Better feeding quality
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82% of the responses from thousands of leading dairymen state positively the Marlow Milker solved mastitis problems and increased milk production.

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Roy A. Strasburg, Lake Mills, Wis.: "Teats and udders on all cows are perfect. Production way up. Marlow Milker is biggest steady money-maker I have on the farm."

Here's the Reason—The experience gained by J. C. Marlow in his 41 years of servicing milking machines and breeding pure bred dairy cattle is built into the new, modern Marlow.

Teat Cups Won't Crawl
Easy to Clean
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For Any Size Herd

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HANDLES
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Baled Hay, etc.
AVAILABLE IN 24', 32', 40' LENGTHS

Nothing Else To Buy!

Complete with
Speed reduction, tires, tubes, wheels • 5" straight sides • 16⅝" wide • 3" flights • Roller at top • Shelled corn screen • Double chain • Slip clutch • Rust resistant paint • One man can handle.

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350 Cuts Per Minute—cuts them down, saws them up, one man operates. Thousands in use. Stiff heavy blade, built to last a lifetime, safety clutch control, uses power take-off of any tractor. Low price.
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has, or can get for you, a copy of our new VpC Feed Formula Book. Gives 20 formulas that show how to make complete, balanced feeds from home grains. This book has helped many money-making dairy, beef, swine, sheep, poultry farmers lower feed costs, raise profits with easy to mix home made feeds. Ask your veterinarian for your FREE copy.

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PEORIA 3, ILLS.

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Stockmen Attention: The Caswell-Larson Automatic Currier keeps livestock sleek, clean, comfortable; free from grubs, scab, lice, flies, and skin diseases. Makes hides worth more; cattle sell higher, gain weight faster. A real money maker for every feeder. New self-acting, self-cleaning, long-wearing steel combs. Dipper pump measures the oil—no valves, no leaks, no waste. Saves fences, buildings, feed bunks.

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Be humane to your stock—at a profit. Write for FREE circulars, low prices and opinions of users. "More important than an extra steer," says one.
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Mailbox was fixed up by Willis Hinkson, Henry county, Iowa, so it can be swung back across grader ditch or piled snow. Let go, and screen door spring swings box back ready for mailman.

SERVICE BUREAU

The Sign of Protection

Is Landlord Liable For Tenant?

To the Editor: My tenant has put some bathroom fixtures in the house on the farm he rents from me. He did this without my knowledge. What I want to know is: Can I be held liable for payment for those fixtures?—R. O., Mills County, Iowa.

You can't be held liable for the fixtures unless you agreed with the seller that you would pay for them if the tenant did not. If they were put in without your consent, you would not be liable to pay for them.

Need Starter For Septic Tank?

To the Editor: I recently put in a bathroom and septic tank. I was told to put in a cake of yeast once a month to help bacterial action. Is this necessary?—L. E., Winneshiek County, Iowa.

There is no need to put any kind of a starter in your septic tank. No added bacteria are needed. In fact, you couldn't keep out the bacteria if you tried.

Raise Chickens On Halves?

To the Editor: A man and wife on another place of mine would like to raise chickens for half. I would furnish the buildings and rough feeds, such as corn and oats. How should we split cost of chicks and whatever else we buy?—K. T., Monona County, Iowa.

Nobody has made a careful study to see just how costs should be divided when poultry is raised on halves. But you probably can figure that your buildings and feed grains would just about offset the other party's labor.

That means a 50-50 division of the cost of chicks, mash, brooder fuel, etc., would be a fair deal. Of course, this depends on the condition of the buildings. Your hired man would have to work harder to raise chickens in a rough shed than he would if you have a modern, up-to-date laying house with running water and handy feed bins.

So you'll have to study the problem in the light of your particular conditions. If a 50-50 division on outside costs seems unfair to either of you, then you should adjust the division accordingly.

Car At Right Has Right Of Way

To the Editor: When two cars meet at an intersection—one from the south and the other from the east, for instance — which car has the right of way?—M. E., Shelby County, Iowa.

The car coming from the east would have the right of way. Iowa law specifically provides that where two vehicles are approaching on a public highway or street so that their paths intersect and there is danger of collision, the vehicle approaching the other from the right has the right of way. See Section 321.319, Code of Iowa.

This would not apply if you were entering an arterial highway or a highway where there is a stop sign.

Whose Duty To Keep Up Buildings?

To the Editor: Can you tell me who is supposed to put new shingles on farm buildings, including the house—the landlord or the tenant?—E. N., Taylor County, Iowa.

It is the landlord's duty to keep the buildings habitable and usable. There would be no responsibility upon the tenant unless the lease so provides.

Of course, the tenant accepts the property in the condition existing at the time of the lease, unless some provision in the lease requires the landlord to make improvements.

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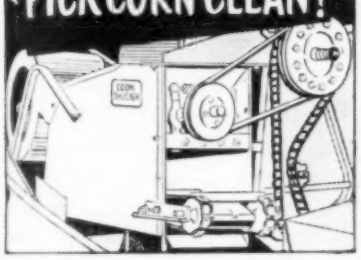

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—OUR ADS ARE NEWS—

First Aid for Stock

Get Rid Of Worms In Hogs

To the Editor: Would you give me a remedy for treatment of worms in hogs and how to use it?—C. L., Buena Vista County, Iowa.

The sodium fluoride treatment has been used to clear up worms in hogs. Here is how to use it:

Feed for one day a mixture of one part by weight of sodium fluoride with 99 parts of dry ground feed. Give this feed mixture to your hogs in the morning, in about the amount the hogs will clean up in one day.

There is no need to fast the hogs before feeding. Don't feed sodium fluoride in a slop, or the hogs may get too much. Mix the sodium fluoride uniformly with the feed. Caution: Sodium fluoride is a poison. Keep it away from children and pets.

Better Buy Clean Breeding Stock

To the Editor: This year, some of my pigs had bull-nose. Would you advise selling all hogs this fall and buying new sows? Or can I keep gilts that look good, to breed for spring pigs?—F. I., Keokuk County, Iowa.

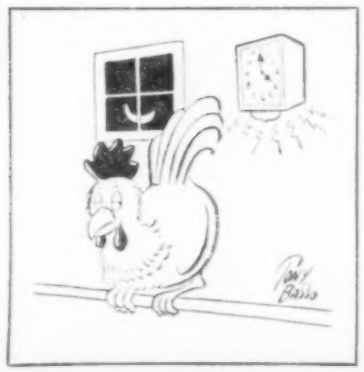
We would advise that you sell all your present herd and start over with new, clean breeding stock. Here is why: There probably are some pigs in your herd which did not suffer a severe enough attack to show facial deformity. Yet those pigs are possible spreaders of the disease.

Vaccinate To Guard New Flock

To the Editor: I lost quite a few chickens from Newcastle disease this year. What will I have to do to get the place cleaned up so I can raise chickens again?—R. M., Shelby County, Iowa.

First, you ought to get rid of any old birds now on the place, if you haven't done so already. Thoroly clean up and disinfect buildings and equipment.

A system of vaccination against Newcastle has been developed. It probably would be wise to vaccinate the new flock before the birds get a chance to become infected. Your local veterinarian can help choose the time and method.



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Last winter Mr. Fox fed his dairy herd a ration of Bulk-O-Sweet and Archer Dairy Concentrate with home-grown feeds.

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Homemaking Department

Edited by **ZOE MURPHY**

Little Billy holds the shortcake that his mother, Mrs. Richard Strother, Boone county, Iowa, has just baked in a Dutch oven.

Dutch Oven At Work

IT TAKES self-control and just the right amount of heat to turn out delicacies from a Dutch oven. But there's no end of possibilities for cooking adventures with one of these handy pans.

It's all a matter of keeping your head. If you get in Dutch with a Dutch oven, it is, likely as not, largely a human factor—curiosity and impatience. If you lift the lid to see what goes on inside—you're lost.

Mrs. Ray Leighton, of Humboldt county, Iowa, has a chocolate cake recipe which is very well behaved for Dutch oven baking.

Dissolve a half-cup of cocoa in a little cold water, mix to a smooth paste, and fill up the cup with hot water. Cream two cups of sugar with one cup of sour cream (to which has been added one teaspoon of soda). Beat in three eggs, one at a time; then the cocoa-water mixture, and gradually stir in two cups of general-purpose flour. A teaspoon of vanilla is optional.

All of this is poured into a greased pan—about eight inches in diameter and about three inches deep. Bake in the Dutch oven for 45 minutes. And, remember: Mustn't peek!

The Dutch oven will take care of itself. It operates on the principle of trapping all the heat in a small space and combining it with the moisture which is given off by whatever you are baking or roasting.

To remove the lid is to permit the heat to drop and to let the valuable steam escape.

The bottom and the lid of the Dutch oven should be the right temperature before the cake or other food to be cooked is put into it. One way to test the heat is the same way which Mother used to test the flat-iron: Tap a moistened finger against the side. If you get a sharp "tsst"—that's what you want.

Dutch oven cookery lends itself well to the farm kitchen for several reasons. If you have bottled gas, a slow-to-medium flame from one burner will do the job.

If you have an electric range, a Dutch oven needs only the current to keep one burner at a medium-to-low temperature—no need to heat the whole oven. And, if it's on a coal or wood range, the Dutch oven will be busy baking away farther back on the stove, while the hotter fire at the front is used for more immediate business.

So you have some frozen berries that you want to put over a shortcake? Well, here's a novel and easy-to-make shortcake — and one that's inexpensive:

Cream together one-half cup of sugar and one-fourth cup of shortening. Sift together one and one-half cups of general-purpose flour, three teaspoons of double-acting baking powder and one-fourth teaspoon of salt. Add the dry ingredients alternately with one cup of milk. When the batter is smooth, add one egg, slightly beaten.

Pour the batter into a greased ring mold and bake in the Dutch oven for 35 minutes before relaxing your curiosity to see what's happening in there. When the 35 minues are up, the cake will be sufficiently baked that testing it with your finger or a toothpick won't hurt it.

The nice part about the ring mold is that the heat is circulating not only all around the sides of the baking dish, but also up thru the middle.

It's important to have the baking dish removed slightly on all sides and the bottom from the Dutch oven. This means placing it squarely in the center on old jar lids, a cake rack, or a grid from a pressure saucepan. Some Dutch ovens have their own racks for baking.

Mrs. Daun I. Gillett, who formerly lived in the Napier community, in southeast Boone county, Iowa, says that, for her family, there is just no other way to roast pork or beef than in a Dutch oven.

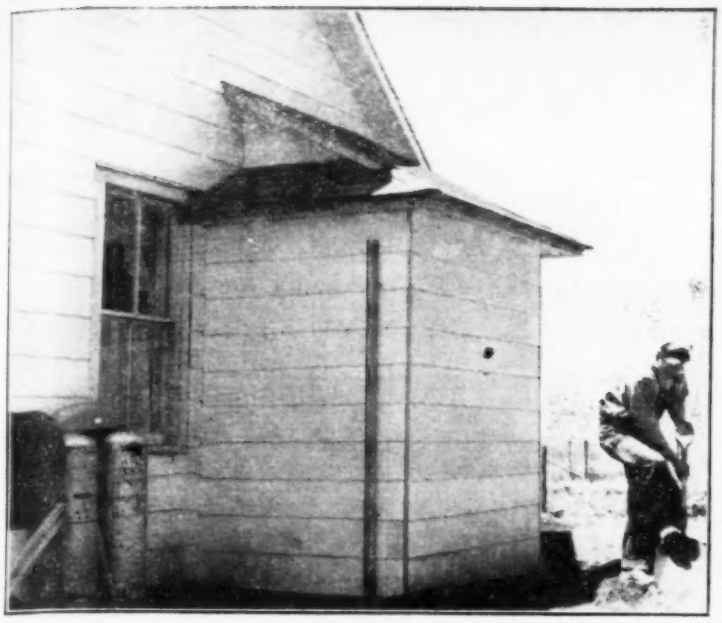
The outside of the roast gets crispy brown—none of this browning in a skillet first. Crisping the outside seals in the juices so that the meat is extra tender when done.

She further finds that the lid to her Dutch oven is a constant helper by keeping the meat well basted.

When it comes to cooking chicken, Mrs. Gillett places a large, disjointed fryer, skin-side down, in the roasting pan (a pie-tin set on the rack). Then she plops some spicy dressing on the top and presses the other half of the chicken on top, skin-side up.

The pan goes into the Dutch oven, the heat is kept steady for at least an hour, and the chicken gets done.

That's it: All that it takes to be a Dutch oven artist is self-control and the right amount of heat.—J. W.



Murray Milledge, of Marion county, Iowa, puts finishing touches on the new bathroom that has just been added to their farm home.

COUNTRY AIR

By ELIZABETH C. WHERRY

NICE of Zoe Murphy to let me have the last word in our little argument, isn't it? Especially when the poll of October 15 proved her point, anyway. I mean our argument over whether women on the farm belong to too many organizations or not.

* * *

Just between you and me (and if Mrs. Murphy doesn't edit this out), I think this goes farther back than the question before the house. I don't like to believe in polls, and she does. Trouble is, polls don't always prove I'm right

* * *

The point probably is that I know a lot of women who do carry heavy community burdens. They do it for several reasons:

* * *

They enjoy working with people. They feel they owe it to their families to work for community betterment. They know if somebody doesn't get under their community organizations and lift, their community will be left lying low. And, finally, they have a high sense of responsibility.

* * *

To be sure, some women go off the deep end to the point where they neglect the very home and family for which they want a better community. That is up to the individual herself. She alone can balance her life and her activities.

* * *

We are creatures of choice in this world, but often we don't act like it. We take on every job that anybody thrusts our way, because we can't say "No." We spread our efforts so thin that we sometimes haven't much depth to offer either our home or community.

* * *

It does seem to me that every woman should be allowed to drop an old interest occasionally and take on a new one.

* * *

I once asked Forrest Spaulding, librarian of the Des Moines public library and a long-time worker in community projects, how many people in Des Moines carried the load of civic projects. "About five per cent," he answered.

* * *

Probably that's about right for every community. Occasionally, you find groups that are all out for every good project that comes along, but when you actually count noses, there are generally a great many people in every community who just ride along. (Or, worse yet, find fault.)

* * *

That irks me! People who never turn their hand over to help ride along on the benefits of the efforts of others—whether it be a school board, better roads, good preachers, or health clinics.

* * *

I bow gracefully to the result of the October 15 poll but now rise to suggest a new argument: I maintain that organizations overlap in too many communities. They need more streamlining.

* * *

How many community groups have similar committees on child welfare, safety, fire prevention, health, patriotism, etc.—all riding off in different directions?

* * *

Thanks to Leslie K. Hanson, of Hamilton county, Iowa, we submit a chronological list of the Jalna books. Miss de la Roche didn't write the books chronologically — that's why the confusion.

* * *

She's a quiet, timid little woman alone, who lives with her secretary in a beautiful Toronto home staffed with perfectly trained English servants. The secretary, now completely blind, has been her constant companion since the penniless days of 1927, when Jalna was published.

* * *

The list is: Building of Jalna, Mary Wakefield, Young Renny, Whiteoak Heritage, Jalna, Whiteoaks of Jalna, Finch's Fortune, Master of Jalna, Whiteoak Harvest, Wakefield's Course, Return to Jalna. Which is your favorite?

Read What Women Say About New Way to Make Better Bread!

"The Robin Hood 'Rolled Dough' Method is certainly wonderful," says Mrs. Irving G. Welkos, Elkhorn, Wisconsin. "It's so easy and quick. Now that I'm using the 'Rolled Dough' Method, my loaves are really uniform and such a lot bigger."

"I was using another brand of flour," writes Mrs. Ruby Davis, Ashley, Ohio. "But when I tried the 'Rolled Dough' Method, using Robin Hood Flour, my loaves were so much more perfect, so much lighter and finer, it was thrilling!"

"I can't tell you how pleased and satisfied I am with the 'Rolled Dough' Method," says Mrs. Leona Winters, Bath, New York. "Baking this way is wonderfully easy and the loaves look so much better! Now I wouldn't use any other method!"

"The 'Rolled Dough' Method makes the best bread I've ever baked," writes Mrs. Lester Auliff, Princeton, Iowa. "The loaves have such a wonderful shape and texture. My family said it was the best bread I ever made. It's amazingly easy, too!"

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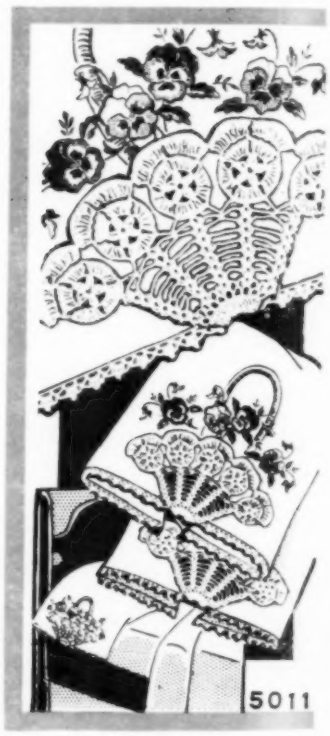

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Apples Are Good In Cake, Too

Grandmother's Recipes Are Just As Good Today As They Were Back In Her Time

APPLE-SAUCE SPICY CAKE

Apples are in plentiful supply this fall. Let's use them. Remember, apples are not just for pies, they'll serve in cake as well. One favorite in Grandmother's day was spicy apple-sauce cake. Here is her recipe, brought down to date and tested:

1 cup sugar
½ cup lard
½ teaspoon salt
½ teaspoon cloves
1 teaspoon cinnamon
½ teaspoon nutmeg
1 teaspoon soda
1½ teaspoons baking powder
1 egg
2 cups flour
1 cup smooth, unsweetened apple sauce
1 cup raisins or
½ cup raisins and ½ cup chopped nutmeats

Cream the fat, sugar and spices together; add the beaten egg, then the apple sauce. Sift the flour with soda, salt and baking powder, and add. Stir in nutmeats and raisins. Mix well. Pour in greased bread pan (9x5x3 inches). Bake slowly in a 325-degree oven for an hour.

APPLE-SAUCE LOAF CAKE

Here's another apple-sauce cake that's a little different and always turns out well:

Cream a half cup butter with one cup sugar until the mixture is smooth. Add a cup of cold apple sauce. Sift the following ingredients together three times: One cup flour, one-half teaspoon soda, one-half teaspoon cloves and one teaspoon cinnamon. Add this to the sugar, apple sauce and butter mixture.

Then add one cup raisins cut fine and a cup of chopped nutmeats. Bake in a greased loaf pan in a moderate oven for 45 minutes.

DUTCH APPLE CAKE

Dutch apple cake is one of the old-time treats also. It can be used as a sweet hot-bread or as a simple dessert.

1½ cups sifted flour
⅓ cup sugar
2 teaspoons baking powder
¾ teaspoon salt
⅓ cup lard
1 egg, beaten
½ cup milk
3 medium-sized apples
½ teaspoon cinnamon
2 tablespoons butter
2 tablespoons mild syrup

Sift together the flour, three tablespoons of the sugar, the baking powder and the salt. Cut in the lard with a pastry blender. Combine the egg and the milk, and add to the dry mixture. Mix to a soft dough. Spread dough on a shallow greased pan. Pare and slice the apples, and place them on the dough in rows of overlapping slices. Mix the remaining sugar with the cinnamon and sprinkle over them. Dot with butter. Bake at 375 degrees for 45 minutes. Remove from the oven and pour the syrup over the top.

"No one can beat Grandma's (Mrs. Anna Barr) bread and rolls," says her daughter-in-law, Mrs. Delbert Barr, of Marion county, Iowa.

Homemade doughnuts! A real farm treat . . . and so easy to make with this brand new Betty Crocker recipe. Just be sure you use Gold Medal "*Kitchen-tested*" Enriched Flour. For Gold Medal's baking qualities never vary. Every cupful acts exactly the same . . . to give you perfect bakings every time.

Use Gold Medal Flour for everything you bake. And remember, each sack contains a folder filled with many new Betty Crocker recipes. In addition, there's a valuable silverware coupon you can use to help build a complete set of beautiful Queen Bess pattern silverware. Gold Medal Flour comes in big, thrifty, family-size sacks of 25, 50 and 100 pounds. Order your winter's supply now.

General Mills

OLD-FASHIONED DOUGHNUTS

MADE WITH SOUR MILK

PERFECT RESULTS ASSURED ONLY WITH GOLD MEDAL FLOUR

Beat well . . . . . **4 egg yolks (or 2 whole eggs)**
Beat in . . . . . **1 cup sugar**, **2 tbsp. soft shortening**
Stir in . . . . . **¾ cup buttermilk or sour milk**
Sift together and stir in . . . . . **3½ cups *sifted* GOLD MEDAL Flour**, ***2 tsp. double-action baking powder**, ***1 tsp. soda**, ***½ tsp. salt**, **¼ tsp. nutmeg**, **¼ tsp. cinnamon**

Turn dough out on *well-floured*, cloth-covered board. Cover and let dough rest for 20 min., to make it easier to handle. Heat fat to †390° (doughnut "center" browns in 1 min.). Have fat at least 2-in. deep in heavy kettle or deep fat fryer. Turn dough over to lightly coat with flour. Roll out gently ⅓-in. thick. Cut with floured *sharp* doughnut cutter. Take board close to kettle, then lift doughnuts with wide spatula and slide quickly into hot fat. Fry only as many at a time as can be turned easily. Turn as soon as they rise to surface and show a little color. Fry about 3 minutes to completely brown on both sides. Lift from fat with a long fork or handle of wooden spoon thrust through hole. Do not prick. Drain, then place on absorbent paper. Serve plain, sugared or glazed. *Makes about 2 dozen 3-in. doughnuts.*

*If you use Self-Rising Flour (sold in parts of South) omit baking powder and salt; reduce soda to ½ tsp.

†The fat will cool some when doughnuts are dropped in—it should be 370° to 380° while foods are frying. If temperature is too high, they brown before they cook through; if too low, they become greased-soaked.

Note: This dough may be made in advance and chilled overnight.

SWEET MILK DOUGHNUTS . . . Follow recipe for Old-Fashioned Doughnuts—except use sweet milk in place of sour milk. Increase baking powder to 4 tsp. and omit soda. (With Self-Rising Flour, omit baking powder, salt and soda.)

TO GLAZE DOUGHNUTS . . . Add ½ cup boiling water gradually to 1 cup confectioners' sugar. Mix well. Dip warm doughnuts into warm glaze.

PS—The temperature of the fat is one of the most important factors in making doughnuts. A deep fat thermometer is the ideal way to watch the temperature and keep it constant. If a deep fat thermometer is not available, test the fat between each frying with a doughnut "center". Center should brown in 1 minute. *Correct temperature will also prevent smoking.*

And remember— **GOLD MEDAL MAKES WONDERFUL BREAD!**

"Betty Crocker" and "*Kitchen-tested*" are reg. trademarks of General Mills

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Old House Too Good To Tear Down

Mr. and Mrs. J. W. Evans, of Washington county, Iowa, bought a new farm last March. The house was in bad shape, but it had good outside lines and some fine old walnut timber in it. So they decided to remodel. Now they have a beautiful and modern home that combines the best of the old house with the new.

Just back of the porch where Mr. and Mrs. Evans are standing is the front hall, with its open stairway and the original hand-carved walnut rail. It makes a beautiful and hospitable entrance to the living-room, which is large and comfortable. One wall of the living-room is broken by a fireplace.

The dining-room is finished in knotty pine. Here, Mrs. Evans examines some of her lovely old china that she keeps in this attractive built-in china closet. There are large windows on both sides of room.

Off one end of the completely modern kitchen is the breakfast nook. Mr. Evans finds it a comfortable place to read, work or rest while waiting for meals. Utility room is off the other end of the kitchen.

COOKERY CORNER

EXCELLENT CRANBERRY ICE

1 quart cranberries
2 cups sugar
½ teaspoon salt
1 tablespoon lemon jello
1 lemon
1 cup cream (not whipped)
Milk

Wash and boil cranberries in a little water until they break open. Run thru a sieve. Add two cups sugar. Dissolve jello in a little hot water. Add with juice of lemon, salt and cream. Add enough milk to make two quarts. Freeze, stirring occasionally—Helen Hoy, Monona County, Iowa.

"MY KIND" SPAGHETTI

½ pound spaghetti
¼ cup flour
1 cup milk
1 teaspoon salt
¼ teaspoon pepper
1 small onion, chopped fine
1 tablespoon chopped pimiento
2 hard-cooked eggs, chopped
½ cup buttered crumbs
¼ cup butter
1 cup canned mushrooms
1 cup tomato sauce
½ cup grated cheese

Cook spaghetti in boiling water until tender; drain. Combine butter and flour; when blended add milk and tomato sauce. Bring this to boiling point and add seasonings—onions, pimiento and mushrooms. Cook all ingredients together in double boiler for 10 minutes, and lastly combine with the spaghetti and eggs. Turn into greased baking dish, spread top with cheese and buttered crumbs. Bake for 30 minutes in a 325-degree oven.—Mrs. Bud Crawford, Custer County, Nebraska.

DELICIOUS MEAT LOAF

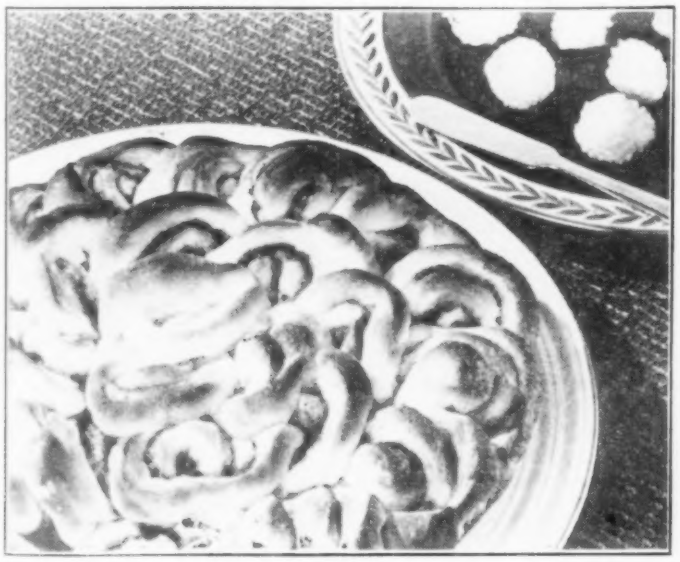
2 pounds ground beef
2 pounds cured ham
4 cups cracker crumbs
4 beaten eggs
2 tablespoons melted butter

Season to suit taste. Add just enough water to form into shape. Press into small sacks 5x11 inches (turn seams out and tie tops securely). Drop into a kettle which has enough boiling water to cover. Boil slowly for two hours. Let cool in the liquid. Remove sacks and slice as wanted. May also be packed in empty corn cans. Cover with waxed paper, tie securely and steam. Remove from cans, slice and serve while hot. — Mrs. Joseph T. Stanek, Webster County, Iowa.

FRENCH DRESSING

1 cup salad oil
1 cup catsup
½ cup vinegar
¾ cup sugar
Juice of one onion
Juice of one lemon
1 teaspoon salt

Put all in a fruit jar and shake well. Keep in refrigerator. — Mrs. Walter Gerber, Hamilton County, Iowa.



SWEET YEAST DOUGH

2 packages yeast, compressed or dry granular
½ cup lukewarm water
1 cup milk
¾ cup sugar
5 cups flour (about)
2 teaspoons salt
2 beaten eggs
½ cup melted fat
1 teaspoon grated lemon or orange rind

Soften yeast in lukewarm water. Scald milk; add sugar and salt to the hot milk; cool to lukewarm. Add two cups flour. Mix well. Add softened yeast, eggs and grated rind. Beat well. Add melted fat; mix well. Add enough flour to make a soft dough.

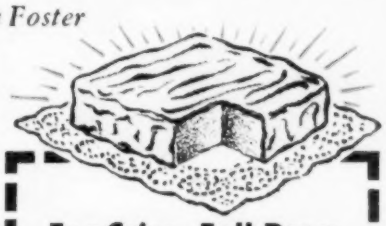
Turn out on lightly-floured board and knead until smooth. Place in a greased bowl. Cover and let rise until about doubled in bulk; punch down. Shape tea rings, rolls or coffee cakes. Let rise until doubled. Bake in a preheated oven at 325 to 375 degrees for 20 to 30 minutes, depending on the size.

This will make two 12-inch tea rings, three and one-half dozen rolls, two flower coffee cakes or two pull-away cakes.

Good Things To Eat.....

by Jean Foster

What's more satisfying than seeing the results of your own handiwork in the kitchen! Tall, tender cakes that make the whole family think you're an angel . . . cookies for the kiddies . . . hot biscuits for dinner . . . and if you haven't baked bread lately, why not give the family a real treat with some of your own home-made loaves. They come light, tender and golden brown when you bake with MOTHER'S BEST ENRICHED FLOUR. This is a *hard-wheat flour*—specially milled and blended for perfect home baking. Every bit of it is twice-tested for SEVEN different baking qualities. I like to speak of Mother's Best Flour as your "success ingredient." Try it soon. It's really wonderful how it helps improve all home baking.



For Crisp, Fall Days
bake this
SPICE CAKE
with Coffee Frosting

1 ½ cups sifted Mother's Best Enriched Flour
3 teaspoons baking powder
½ teaspoon salt
1 teaspoon cinnamon
½ teaspoon cloves
½ cup shortening
1 cup brown sugar
2 eggs
¾ cup milk

1. Sift together, Mother's Best Flour, baking powder, salt and spices.
2. Cream together shortening and sugar until light and fluffy. Add eggs, mixing well.
3. Add flour mixture to creamed mixture alternately with milk.
4. Pour into greased pan, 8 x 8 x 2 inches. Bake in moderate oven (350°F) 45 minutes.

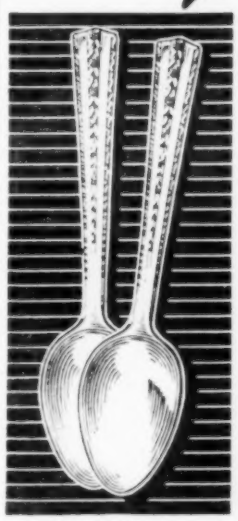
COFFEE FROSTING
¼ cup butter or margarine
1 tablespoon very strong coffee
1 cup confectioner's sugar
Cream, butter or margarine. Gradually add sugar and coffee. Beat until light and fluffy.
Makes enough for 1 cake 8 x 8 inches.

IF YOU LIKE PANCAKES—

. . . I know you'll love these old Southern Style cakes made with DIXIANNA PANCAKE MIX. No other pancakes just like them. In recent "taste-test" *seven out of ten* folks said they liked Dixianna Pancakes better than the kind they *had* been using. Dixianna Pancake Mix is made according to an old southern recipe—has that "mouth-watering" goodness that has made the south famous for good cooking. What's more, every package of Dixianna has a valuable silverware coupon.
Save those coupons . . . get a full set of lovely silverware quickly and easily.

FOR A DIFFERENT supper, hollow out some rolls, toast and butter them—then fill with chili con carne and chili beans. Sprinkle with grated cheese. And be sure to have plenty on hand for re-fills!

2 SILVER TEASPOONS
Yours for Only 25¢



This offer is being made just so you can see the wonderful silverware now being offered to users of MOTHER'S BEST FLOUR and DIXIANNA PANCAKE MIX. For only 25c and the words "Mother's Best" from any size sack of Mother's Best Flour, I am able to send you TWO TEASPOONS in *Wallace's* Knickerbocker AA Quality Silverplate. This silverware is plated with 50% MORE SILVER than standard A-1 plate. Popular Rosanne pattern on sale at leading jewelers. Every piece *guaranteed for life* by Wallace's, makers of fine silverware since 1835. I know you'll like it. Send today for your two introductory teaspoons.

JEAN FOSTER, Box 1217 Omaha, Nebr.
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Says Mrs. Oscar Ordway

"You can't be too careful when you wash these items . . . they have to be disinfected, deodorized as well as bleached. That's why I always use Hi-lex.

"Only Hi-lex contains the new ingredient "X" to help do all three of these important tasks quicker . . . and yet more safely than ever.

"And Hi-lex is so easy and economical to use. Just follow the simple directions that you find on the label.

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Acid taste in mouth? That awful gassy feeling? Then—try a switch to POSTUM!

For the latest scientific facts reveal that, in many persons, caffein in both coffee and tea *tends to produce harmful stomach acidity*, as well as *nervousness*, and *sleepless nights!* While many people can drink coffee or tea without ill-effect, *many others can't.*

So if you suffer heartburn, indigestion, sleeplessness, make this test: *give up coffee—give up tea—drink* POSTUM *exclusively for 30 days—judge by results!* Remember, POSTUM contains no caffein or other drug—nothing that can possibly cause indigestion, nervousness, sleeplessness! Ask your grocer today for INSTANT POSTUM — A Vigorous Drink made from Healthful Wheat and Bran.

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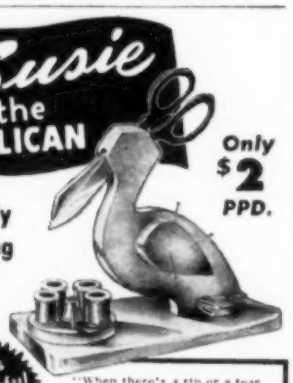

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Women Get Ideas For New Homes

350 Farm Women Make Tour Of New And Remodeled Homes In Clinton County, Iowa

Mrs. Elmer Lueders in her recently remodeled kitchen in Clinton county.

YOU have visited the neighbors' new house to see how they were doing things. On a larger scale, a group of women in Clinton county, Iowa, visited a series of new and remodeled homes to get new ideas for their own.

This time, when plans for the tour were being made, so many new and remodeled homes were offered for viewing that two trips were arranged. Homes in the western half of the county will be visited next spring.

Every participant in the tour was provided with a mimeographed sheet listing for each home the name of the owner, directions as to its location, suggestions about special features to watch for, and information on improvements still to be made.

In some cases, the owners hadn't had time yet to paint the walls or choose draperies, but other features were so outstanding that planners of the tour had asked that they be allowed to inspect them, anyway.

Such was the situation at the C. W. Norman house, east of Low Moor. The Normans had been in their new home only a few days, and still had four types of drapes hung at the sides of the two picture windows, trying to make up their minds which ones they should buy.

The new home stands next to the house in which Mr. Norman lived for nearly 50 years. Not wishing to leave his home when he retired, he built the new house and tenants who run the farm will live in the older structure.

The women kept "oh-ing" and "ah-ing" about the blow fan over the stove, which takes off cooking odors, the doors which slide back into the walls, the bedroom closets with two doors (one above the other), to give easier access to storage space, and the picturesque display area for pottery and glassware in the kitchen.

Members of the Lloyd Voorhees family solved the "bathroom traffic jam" problem when they made plans for their new home equipment south of Low Moor.

The two-story house has two bathrooms, one on each floor. Only the one upstairs has a tub, allowing the downstairs room to be small and compact, containing only a wash-basin and stool.

Three large dormer windows provide extra light, and the additional area also secured is used for storage space in the upstairs bedrooms and for floor space in the bathroom.

In contrast to the roomy Voorhees home was the compact quonset type tenant house of the Raymond Riggs family. It featured a compact, two-wall type kitchen and full basement. It is located west of the city of Clinton.

In the remodeled class were the kitchens of Mrs. Merrill Arp, west of Clinton, and Mrs. Elmer Lueders, east of Elvira.

Mrs. Arp herself designed most of the features in her compact U-shaped kitchen. She has a chair which fits into the lower cupboard to look like a large drawer, and a built-in lap-board which is low enough for "sitting-down" work.

Wide panels of knotty pine wall finish thruout the Lueders kitchen give a really new appearance to that room. There are two doors, each made of a single block of the finish, which give access to the basement and the upstairs. A built-in ironing board saves time and space.

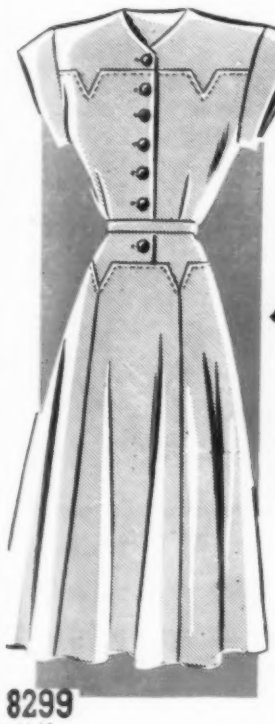
The climax of the tour of farm homes was the stop at the Harold Walrod home, north of DeWitt. This is a ranch-style house. It features a powder room and a closet near the front entrance, a utility room which is equipped with an automatic dishwasher and an automatic clothes-washer, dryer and ironer.

The women also visited the homes of Mrs. Ernest Scott, northwest of Clinton; Mrs. Ernest Boehde, south of Andover; Mrs. John Balster, west of Clinton, and Mrs. William Cornish, east of Low Moor. — Mrs. H. F. H., Clinton County, Iowa.

Mrs. Merrill Arp, Clinton county, demonstrates her chair for "sitting-down" work.

Smart Styles

No. 8527—It requires only one yard of 54-inch fabric to make this handsome skirt in the smaller sizes. Comes in waist sizes 24, 25, 26½, 28, 30 and 32.



8299
11-18

No. 8299—For the junior miss. Interesting detail: choice of sleeves. Sizes 11, 12, 13, 14, 16 and 18.

No. 8530 — Blouses for any occasion. One yard each of bright material for smaller sizes. Comes in sizes 12 to 20; 40 and 42.

No. 8518—You can dress her pet doll in a complete new wardrobe in no time with these dainty one-piece patterns. For dolls 14, 16, 18 and 20 inches.

No. 8258—For women of larger figures. Note scalloped accent. Sizes 34-48.

Patterns are 25c each. Use coin or stamps—coin preferred. The New Fall and Winter FASHION Book is also 25c. Order from the Pattern Department of Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa. CAUTION: Always include your name and address.

DETROIT PUBLIC LIBRARY

Mrs. Tony Buse at work in the kitchen of her attractive farm home in Sac county, Iowa. Her equipment is all modern and new.

When Children Must Stay In Bed

A Correspondent Gives Some Good Ideas For Making Convalescence More Cheerful

SOME time during the school months, most children will have a siege of measles, mumps, chicken-pox or a severe cold, to necessitate their staying in bed a few days. Such a time is often as trying for a mother as for the patient himself.

If a child must be kept quiet, it will be less strenuous for the entire family if he can be kept contented. A wise mother will have a few ideas and tricks on hand to make the time of recuperating pass as quickly and pleasantly as possible.

If games are to be played on the bed, a plastic tablecloth will protect the bedding, and a bed tray of some sort will hold the games or play material more securely.

Molding clay is fun for all ages, and with a little guidance even the smaller child will spend hours molding animals for a farm, doll furniture, planes, cars or whatever appeals most to him.

If you have no molding clay, you may make it easily and inexpensively. Use one cup flour, one-half cup salt, one teaspoon powdered alum, and add about one-third cup of water, or enough to make the mixture form a firm ball of the right consistency for molding. Add a fourth teaspoon of peppermint or clove oil, to make the smell more pleasing.

This clay may be divided into parts and colored various shades with a small amount of cake coloring or water colors.

Old magazines, scissors and a scrapbook appeal to most children. Catalogs, too, provide a fine source of paper dolls and dresses.

An old cardboard box provides a satisfactory substitute for a doll house. It may be furnished with cabinets, stoves, cupboards and sink, cut from pictures out of catalogs and pasted around the wall. Miniature furniture may be made from match or powder boxes.

Toothpicks and puffed wheat may be used to make all sorts of stick men or animals. Clothespins may be used for dolls, for fences, for log cabins or other buildings.

Small girls would enjoy sewing cards made by tracing a simple design on cardboard and punching holes, evenly spaced, with a darning needle.

Pictures from magazines, pasted on cardboard and cut into odd shapes, make fine jig-saw puzzles.

A wise mother will look thru old magazines before discarding them. Puzzles, riddles and jokes, cartoons, or children's stories can be pasted in a little "Surprise Pook."

And, when shopping, Mother will see toys, games and puzzles, books and other materials suitable for children. These may be stored away for a time when a child must be kept indoors.

A few quiet games are well to know when Mother or other children are around to play. An old one that children always enjoy is "What Am I?" Have "It" name a color he sees in the room, and the other players must guess what it is. The one who guesses correctly becomes "It."

The imaginary version of "Hide and Seek" can be played even by tiny tots. Have "It" think of an imaginary hiding place in the room, and if he is not found in three guesses, he gets to be "It" again.

If a child is to stay in bed for several weeks, he should not be kept in a room where he is isolated from the family. If his bed is where he can see Mother working, it is less lonely. If the bed is near a window, he may watch the trees, birds or passers-by.

There are sure to be days when children must be kept in, and the far-sighted mother will plan ahead so these days will be as pleasant as possible for the entire family.—Mildred D. Cathcart, Appanoose County, Iowa.

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No Cooking. Makes Big Saving.

To get quick and satisfying relief from coughs due to colds, mix this recipe in your kitchen.

First, make a syrup with 2 cups granulated sugar and one cup of water. No cooking needed. Or you can use corn syrup or liquid honey, instead of sugar syrup.

Then get 2½ ounces of Pinex from any druggist. This is a special compound of proven ingredients, in concentrated form, well-known for its quick action on throat and bronchial irritations.

Put Pinex into a pint bottle, and fill up with your syrup. Thus you make a full pint of splendid medicine—about four times as much for your money. It never spoils, and tastes fine.

And for quick, blessed relief, it is surprising. You can feel it take hold in a way that means business. It loosens phlegm, soothes irritated membranes, eases soreness. Makes breathing easy, and lets you get restful sleep. Just try it, and if not pleased, your money will be refunded.

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Select fish of your choice and order [illegible] express shipment TODAY.

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Smoked Tullibee Whitefish	.45
Smoked Salmon	.68

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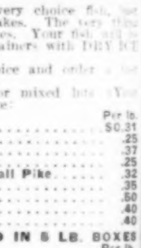

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Lines from ... Aunt Lib

On Sewing While It Rains

IT'S been raining today. One of those leisurely fall rains that starts in like it intended to stay all week.

Pa's out in his shop tinkerin' with some repairs for the corn picker—so it's quiet around the house.

Knitting or darning's all right to do when you've got people around to visit with. But I like to be by myself when I'm sewin'. Don't even like to have the radio on if I'm workin' on a real exacting pattern.

Aunt Lib

You can cut out an ordinary kind of dress with your eyes shut. But this was an odd kind of pattern—sleeves and back of the blouse all of one piece, with a funny little gusset under the arm. The skirt had deep pleats front and back, to give fullness. And all stripes had to match just right.

I've been wanting to make a dress for myself for some time. So I really wasn't sorry when the rain gave me an excuse to start.

It's really fun sewing—now that I've got the new electric attachment for my machine. When your joints aren't as limber as they used to be, you appreciate a machine that you don't have to treadle.

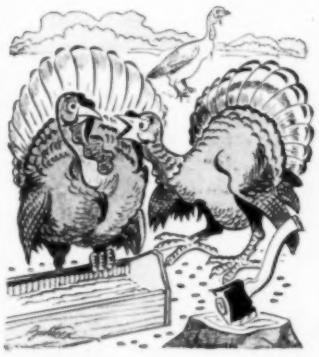
The light right by your work helps, too. Especially, with one of those shadowless fluorescent ceiling lights to go with it.

Cousin Em likes to have their house-cat in a chair beside her while she works. Many younger homemakers will have a toddler in a play-pen, or older children about.

Children are more company—but more distracting, too. Unless you're making a dress for your little girl. Then she's generally pretty cooperative.

Now that my children are all grown and gone, I do feel lonesome at times. Even so, at some jobs, I'd just as soon be alone with my thoughts.

It's a comfort just to hear Pa hammering outside and know there's someone else about. Then the steady drip, drip from the eaves is company enough while I'm sewing.



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For those who suffer with aches, pains, stiff or sore joints, nervousness, over acidity, systemic toxemia, colitis, or other rheumatic symptoms, this book entitled, "Rheumatism," fully explains why drugs and medicines give only temporary relief and fail to remove the causes of the trouble.

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— OUR ADS ARE NEWS —

Droppings pits are easy to clean the way young Charles Frantz, of Story county, Iowa, has them fixed. Hinged sections are lifted, hooked to ceiling. Then it's simple to rake out the droppings.

What Night Lights Work Best?

Either Longer Day Or All-Night Bulbs Help Get More High-Priced Fall Eggs

WHAT kind of lights are you using on your hens? Bright morning lights or all-night lights?

The hens don't seem to care which are used. Records kept by cooperators in the Iowa State College demonstration flock program show that results are about the same in either case.

The two systems cost about the same, too. Bright lights use more than twice as much wattage. But they are on less than half as long as all-night lights. So each uses about the same amount of juice.

The bright-light plan requires an automatic device for turning on the lights unless you're willing to get up very early in the morning to do the job yourself. The all-night light systems need no turn-on equipment.

H. H. Cannon, of Plymouth county, Iowa, had a 214-egg average per hen last year, using bright morning lights. This was a noticeable increase over the year before, when he used all-night lights.

On the other hand, Raymond Fisher, of Greene county, Iowa, has always used all-night lights. And he's been at the top in production for two years, averaging 263 eggs in 1947 and 269 in 1948.

Of course, all records show that neither system of artificial lights has much effect on total yearly production. Main benefit of lights is to get more eggs in the fall.

Demonstration flock records show that flocks without lights usually lay much heavier in the spring than in the fall. Flocks with lights will lay nearly as many eggs in the fall as in the spring.

Most flock reports show a definite upturn in production soon after the lights are turned on—usually within two to four weeks. Of course, if you turn the lights on pullets when their production still is increasing, you may not notice a difference.

It is doubtful if it is necessary to use lights on early-hatched pullets when they are first starting to lay. In fact, it may be harmful—too much stimulation at that time could be responsible for a slump later.

That's why many light-users wait until natural daylight fails to keep the birds laying at a consistently high level.

Some folks believe—altho this hasn't been proved—that too much stimulation with lights causes large-egg trouble in a pullet flock. It's true that double and triple yolks can cause blowouts which invite cannibalism. But flock owners who wait until late October or early November to turn on lights usually don't have that trouble.

You can get good or poor results from the use of lights, depending upon such factors as bulb size, reflectors, light location, and the length of time lights are on.

Bulbs without reflectors produce only half as much floor light as those with reflectors. Lights eight feet from the floor are only 60 per cent as bright on the floor as the same bulbs at six feet.

Location makes a big difference. Lights located in the front of a wide house, and only four feet from the floor, may not be effective because birds on the roosts are in the dark.

A 60-watt bulb at six feet from the floor, equipped with a wide-angle reflector and burning from 3:45 a. m. until daylight, would give plenty of light during the latter half of December. A 25-watt bulb burning all night should produce similar results.

Don't forget, tho, that lights alone won't maintain high production thruout the winter months. Lights help, but good birds, the right feed, comfortable houses and good management are important, too.—W. R. Whitfield.

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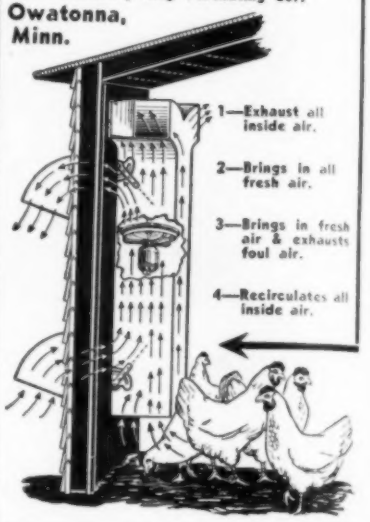

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The Farm Flock

Put Small Or Large End Down?

To the Editor: When eggs are put in the case, which is the correct way to put them in—large end down or small end down?—Mrs. D. R., Jones County, Iowa.

You should put the small end down. An easy way to remember is: Put them in the case the hard way. It's natural to put them in large end down, but it's the wrong way.

Trouble Due To Diet Or Disease?

To the Editor: Many of our laying hens break down in the legs. Then, after a few days, they recover again. Is this a disease? Or is something missing in their feed? — D. S., Wayne County, Iowa.

Without knowing more about your present feed and about past history of diseases in your flock, it would be hard to tell what the trouble is. If you feel that diet may be the cause, see that your hens have plenty of oyster shell. Give them some bright green, leafy alfalfa for added Vitamin A.

A disease that might be at the root of your trouble is range paralysis. But this usually kills some of the birds.

Why don't you try the diet suggestions given above? Then, if that doesn't help, call in your veterinarian.

Hen House Ready For Winter?

Now is the time — if you haven't done it already — to get your laying house all set for winter weather.

First thing to check, says Sam Ridlen, extension poultryman at the University of Illinois, is the watering system. Are there any leaks? Better get them repaired now. It will be hard to do when below-freezing temperatures show up. And a leaky fountain makes it almost impossible to keep litter dry.

You'll also want to plan how to keep waterers and pipes from freezing. Easiest way is with one of the inexpensive heating devices now on the market. Soil cable may be the answer if you have an automatic water supply.

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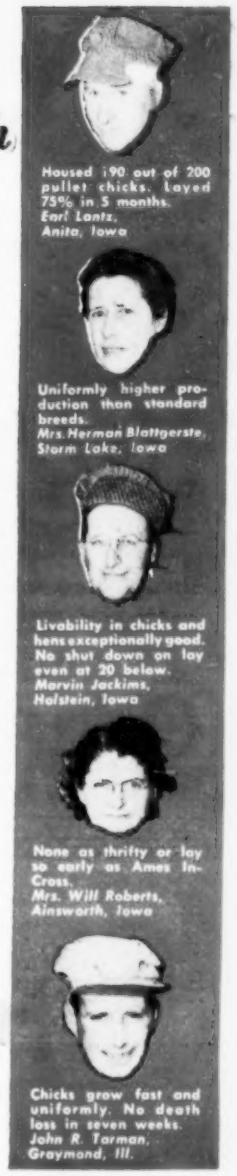

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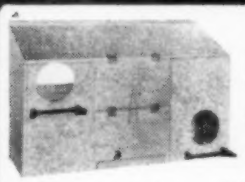

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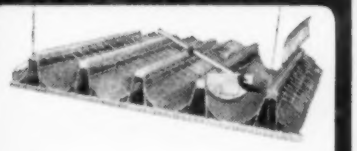

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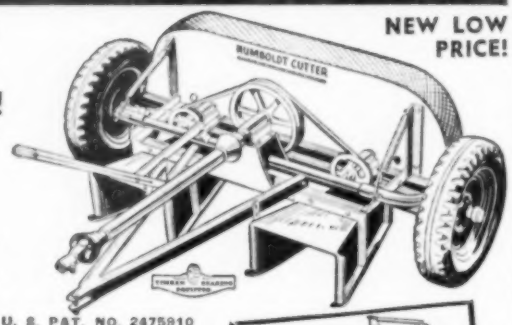

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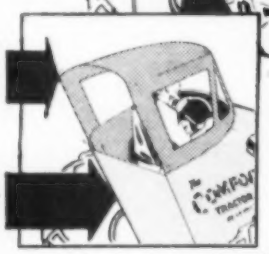

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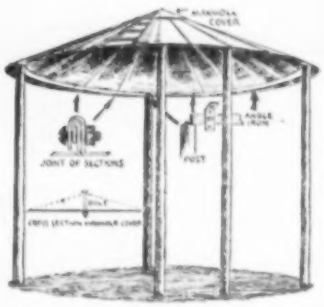

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For Wire or Slat Cribs

Thousands of farmers have had serious losses by spoilage of corn due to poor roof over their crib. Whether your corn is sealed or not, you'll stop losses due to poor grades with a Hastings roof. Made of heavy 24-gauge steel, same as in the Hastings and Climax Grain Bins. (One-fifth heavier than 26-gauge.) Manhole cover. Easy to handle. Extreme width of roof: 15', 17' and 18'. Get posts and wire or slat cribbing locally—have a permanent and approved crib at little cost. Supply is limited—get yours immediately.

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—START SAVING NOW THE EASY U. S. SAVINGS BOND WAY—

Voice of the Farm

Says Weed Law No Good

To the Editor: The weed law is a reflection on the farmers who have made Iowa famous as an agricultural state. It should be repealed.—J. R. Sampson, Keokuk County, Iowa.

What if your neighbors let their thistles grow?—Editor.

Unhappy About His Taxes

To the Editor: What with sending all this money to foreign countries, and with so many white-collared, pencil-pushing bureaucrats, is it any wonder taxes are sky-high?—I. W. Charlson, Winnebago County, Iowa.

What about state and local taxes? They don't go abroad.—Editor.

Wants Hog Support At 20 Cents

To the Editor: Why the seasonal decline in price supports on hogs? There is no seasonal decline in wages. Labor gets the same price thruout the year.

The price that labor gets justifies 20-cent hogs. So, with hog supports at 15 cents, we lose $10 on each 200-pound hog.

Maybe the only solution is to produce 75 million hogs instead of 95 million.—Reader, Jefferson County, Kansas.

Or fix things so people will eat more pork.—Editor.

Social Security For Farmers

To the Editor: Social Security certainly should include farmers. If bank failures or other causes sweep away a farmer's property at a time in life when he can no longer engage in business, he is left without a livelihood.

Such a condition is unfair to farmers, who have helped make our country the wonderful nation it is. So let the protection of Social Security be theirs also. — C. W. Files, Cerro Gordo County, Iowa.

Sounds sensible.—Editor.

Cows Freshen Just Twice?

To the Editor: Here is a seed that Ames professors can cultivate if they think it worth while.

Take a cow when she has freshened for the second time and sterilize her. She could then become a converter of feed into milk for the rest of her useful life, freed from bearing an unwanted calf.

Most bull calves are of no value. And the heifers from the first two freshening periods would make enough replacements, since elimination of time wasted in bearing calves would cut down the need for replacements. — E. N. Luse, Stanislaus County, California.

Will a cow maintain production without freshening periodically?—Editor.

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NEW BIG THROAT feeder hopper handles large corn bundles, chunks of square bales, or split rolled bales. Safe pneumatic feed.

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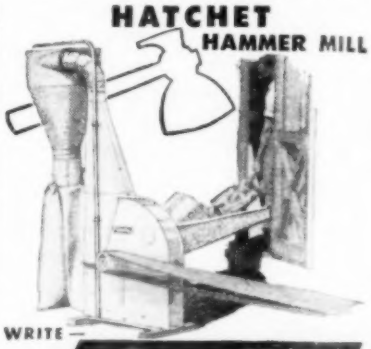

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Flow-Ting will float him in health-saving comfort across roughest ground. No more ills and aches and pains from tractor jolts and bumps. He'll keep his pep in busiest times!

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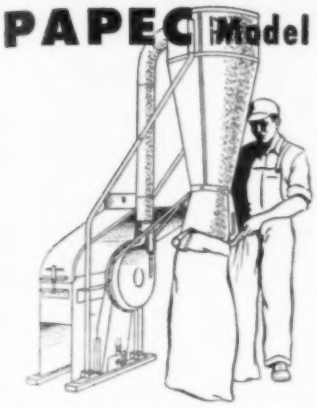

You can save money and have better feed by grinding your own home grown grains and roughage with a Papec Hammer Mill. You get fresh feed ground to just the degree of fineness you want. Stock clean up coarse, unpalatable roughage when ground which would otherwise be wasted.

And remember, every Papec Hammer Mill is GUARANTEED to grind *any* dry feed to *any* desired fineness faster and cheaper than *any* other mill in the same power class.

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48 Main St., Shortsville, N. Y.

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with a

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1909 **RELIEVED** 1949

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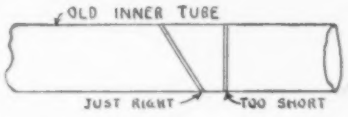
HANDI-HINTS

Emergency Belt In A Hurry



If you ever break a belt and need an emergency belt in a hurry, here is the way you can make one:

Cut a section from an old inner tube. By making cuts at an angle, you can increase the length of the belt.

If you break a V-belt, this method will work, too: Cut several belts of the above type, all the same length. Place the belts in the same groove, one on top of the other.

How To Keep Rats Out Of Crib

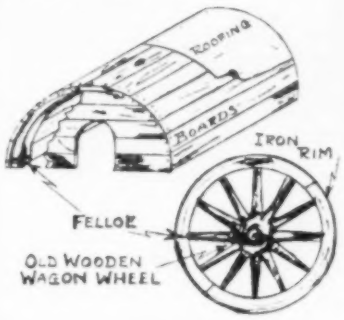
To the Editor: How wide a strip of sheet metal is necessary to keep rats out of a corn crib? The crib has a cement foundation one foot high. I intend to put sheet metal above that.—P. V., Minnehaha County, South Dakota.

A 12-inch sheet of smooth tin or sheet steel is considered wide enough to keep rats and mice from climbing over it. For extra safety, flare out the sheet slightly at the top.

Generally, recommendations run something like this: Put at least 24 inches of small mesh poultry wire or one-half-inch mesh galvanized hardware cloth above the floor. Then put a 12 to 18-inch strip of smooth tin or sheet metal above that.

Even then, you will have to cut down nearby weeds and shovel away any close-up snow drifts that would give rats a ladder to help them in.

Here's A Handy Dog House



You can build a handy and comfortable dog house from an old wagon wheel. Take the tire off. Saw off the spokes close up to the rim or felloe.

Use equal halves of the rim as rafters. Nail narrow boards to the rafters. Board up the ends, leaving space for a doorway for the dog.

When the curved part is covered with roll roofing, it will make a dry, snug house for your dog.

Everywhere you See Proof

that Armour's Makes Better Corn

You see fine-looking crops like this everywhere, because more farmers use Armour's. Armour's helps you raise more bushels to the acre, helps bring on earlier maturity, with better-filled ears. Put balanced, dependable Armour's Big Crop* to work in your corn. It's backed by over half a century of successful production. There's an Armour plant located near you. Be sure to place your order early.

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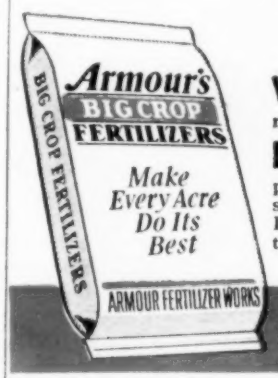

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Double-Strength More plant food units per bag at lower cost per unit with Big Crop high analysis double-strength fertilizers and Big Crop 45% SUPER-PHOSPHATE. Save on handling, transportation, storage.

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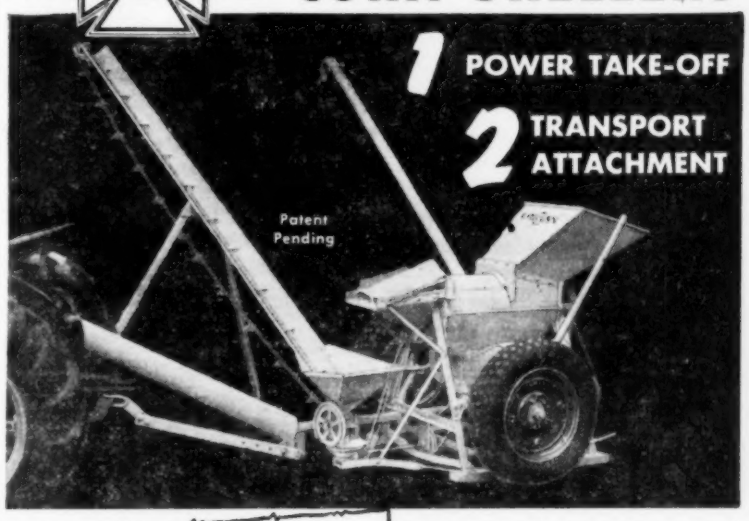
TWO advanced new features save time and labor when you use low-cost

CROSS CORN SHELLERS



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- LARGE CAPACITY. 200 BPH hand-picked or 100-125 BPH machine-picked corn.
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LOUDEN MASTERMADE Water Bowl

Now—stop disease-spread from water bowl back-siphoning by installing the new improved Louden Mastermade Water Bowl. Water enters bowl ABOVE water line, diseased animals can't spread infection throughout the water system.

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Louden — pioneer in barn equipment in 1867 — offers a Barn Cleaner worthy of the name "Louden", and a prefabricated Hay Drier. Outstanding Barn Cleaner features insure longer life, greater efficiency, less maintenance. The all-steel Hay Drier saves every crop, makes more nutritious hay.

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Attaches with two bolts. Tractor carries saw, eliminates chain thrust. Nationally famous chain, universal joints and bearings.

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Will notch, fell, or saw logs without extra attachments. Easy to handle. *Only 106 lbs.* Low initial cost, minimum maintenance.
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MAKES MIXED FEEDS FROM HOME GROWN CROPS

It takes a Letz to prepare mixed feeds for all livestock. L. P. Kelley, dairy-farmer, Oklahoma City, Okla., says, "My Letz saves its cost every 4 months." Thos. E. White, Arcadia, Neb., topped Omaha market with 24 beef cattle fed Letz prepared feeds from start to finish. Never a scour.

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CROWN POINT, IND.

Killearn Max Juggler, entry of Clausen Bros., Spencer, Iowa, was grand champion Shorthorn bull in the National Show at the American Royal. Both Shorthorn championships went to Iowa herds.

Hot Cattle Shows At American Royal

Iowans Make Clean Sweep Of Shorthorn Purples And Win Top Angus Bull Award

ALL breeders of purebred Shorthorn cattle can well be proud of the exhibition of their breed at the American Royal Livestock Show, in Kansas City, Mo.

Exhibitors, too, can be proud of having had a part in the 1949 national show, one of the greatest displays of Shorthorn cattle in history.

Clausen Brothers, Clay county, Iowa, saw the bull championship purple go to their two-year-old herd sire, Killearn Max Juggler. Reserve went to the Iowa State Fair grand champion, Edellyn Royal Leader 66th, from Edellyn Farms, Wilson, Ill.

Golden Rule Luxury, the Iowa Fair champion, shown by Holz Brothers, of Greene county, Iowa, was the grand champion female at the Royal. O. W. House, Washington C. H., Ohio, had the reserve champion heifer.

In the get-of-sire class, 160 of the nation's top Shorthorns crowded the ring. There was just room for the judge to squeeze in around the cattle and the herdsmen.

Edellyn Farms won that class on the get of Edellyn Royal Leader. A Canadian herd, that of P. F. Law, Weston, Ont., was in second place, and a Polled group, from one of the top herds in America, that of H. L. Strauss, Glyndon, Md., was third.

Iowa breeders stood well up in almost every class. In the group of three bulls, Clausen Brothers were second; McCone Brothers, of Shelby county, third; George Struve & Sons, Carroll county, fifth, and Ben G. Studer, Hancock county, sixth. Holz Brothers had the top two females and top pair of yearlings, bull and heifer.

All in all, it was a show that did justice to the breed and to the breeders. Oklahoma A. & M. College, had champion Shorthorn steer. Boys' Town, Omaha, Neb., had champion carlot of fat steers.

Altho the Hereford breed built much of its reputation and gained a lot of its popularity in the feedlots of the corn belt, one of the odd swings of the purebred cattle cycle has shifted the top show herds out of the area.

MW Larry Mixer I, the junior yearling owned by Alan Feeney, Milky Way Hereford Ranch, at Phoenix, Ariz., was the grand champion Hereford sire. Reserve ribbon went to the senior bull calf, Publican Domino 204th, from the herd of W. J. Largent, Merkel, Texas.

Largent also had the grand champion Hereford female, Blue Bonnet Domino 136th, a summer yearling. Jack Haley, Escondido, Calif., the movie comedian, exhibited the reserve champion Hereford female, JJ Gertrudis, a senior yearling.

The champion load of fat Hereford steers, and grand champions of the show again this year, were TO cattle fed by Karl Hoffman, Ida county, Iowa.

Champion Hereford steer, and grand champion of the show, was the entry of an Oklahoma FFA boy, Bob McKinley, of Dale.

Corn belt and Iowa herds staged a comeback in the Aberdeen Angus division.

Envious Bardolier 3d, junior yearling from El-Jon Farm, Mahaska county, Iowa, was junior and grand champion Angus bull. Eileenmere 1050th, a senior yearling from the J. Garret Tolan Farms, Pleasant Plains, Ill., was senior and reserve grand champion bull.

Tolan had the reserve champion Angus female, Paulinemere 5th, a junior yearling. The two-year-old heifer, Miss Blackcap of RLS 8th, was senior and grand champion Angus female. She is owned by Shadow Isle Farms, Red Bank, N. J.

Best carlot of fat Angus was exhibited by F. B. Eitel & Sons, Green Castle, Mo. Top Angus fat steer, and reserve grand champion of the show, was Black Gold, the entry of C. E. Yoder & Sons,

"NO LONGER SLEEPLESS!"

Changing to Famous Cereal Drink Brings Natural Relief

Can't sleep? . . . Toss and turn?... Get up in the morning feeling more tired than when you went to bed? . . . Then you'll find real encouragement in this letter from a man in Peoria, Illinois:

"Nervousness and sleepless nights were my two reasons for switching to POSTUM—and you can tell the world that drinking POSTUM instead of coffee quieted my nerves and made me sleep better, thus improving my general health."

SCIENTIFIC FACTS: Both coffee and tea contain *caffein*—a drug—a nerves stimulant! So while many people can drink coffee or tea without ill-effect, others suffer nervousness, indigestion, sleepless nights. But POSTUM contains no caffein or other drug—nothing that can possibly cause nervousness, indigestion, sleeplessness!

MAKE THIS TEST: Buy INSTANT POSTUM today—drink POSTUM exclusively for 30 days. See if POSTUM doesn't help you, too, to sleep better, feel better, enjoy life more! . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

HEAVY DUTY HOG PAN
• Baked red enamel finish
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Pound it with a sledge hammer, or back over it with a tractor! A Siebring heavy duty hog pan won't break. Drop-forged, these 14" pans are ideal for hogs, and other livestock and poultry. At your dealer or *order direct* at $1.85 each.

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Instant Weight Regulator

NEW EASE. Ride a Joy Rider and feel the difference. Now, Instant Weight Regulator adjusts spring-action to your exact weight. Just sit on the seat and turn small crank in front to find proper weight balance. Quick. Easy.

SAVES BACK. Hydraulic shock absorber is at an angle so there is no sharp, jarring, downward thrust. Gentle two-way smile—backward and downward—is much easier on the back, takes the jar off the spine. Many other advantages. Available with cushion or steel seat, or frame only.

WRITE TODAY for free literature, name of nearest dealer.

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NEW! TRACTOR MOUNTED HOIST

Handiest Tractor Attachment. Rides permanently on tractor for instantaneous use on almost any lifting job. Ideal for dumping wagon or truck. Lifts heavy implements; hoists tractors, trucks for repairs. Does hundreds of farm jobs easier. Operates off tractor hydraulic pump. Lifting stroke, 6½ ft. Lifting capacity, 4,000 lbs. Installed in few minutes; no holes to drill. Does not interfere with other equipment. Write for full information, dealer's name, etc.

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HAS MASTITIS CUT YOUR MILK CHECK?

Mastitis is one of the most costly and discouraging diseases of dairy cattle. It leaves ruined quarters and lower production in your herd, and sends many cows to slaughter long before their time.

Do all you can to prevent infection. Sanitation and proper milking practices will help keep it out of your herd. But if mastitis does get started, call your GRADUATE VETERINARIAN for expert treatment. Mastitis is too serious—too costly—for you to take a chance.

In most cases of mastitis your GRADUATE VETERINARIAN can use *Armour Penicillin Bovigen*—a proved, effective treatment that stops infection in its tracks.

Remember, potent *Armour Penicillin Bovigen* administered by a GRADUATE VETERINARIAN can reduce losses from mastitis in most cases.

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PRODUCER OF ARMOUR ANTI-HOG CHOLERA SERUM

10 BUSHELS PER ACRE MORE NEXT SEASON?

The Answer Is

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PHOSPHATE ROCK

Haul now and spread any time. Fall or Winter. You'll see results first crop.

Ask Any of These Men!

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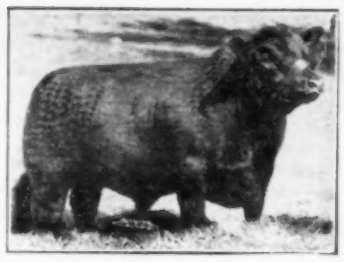
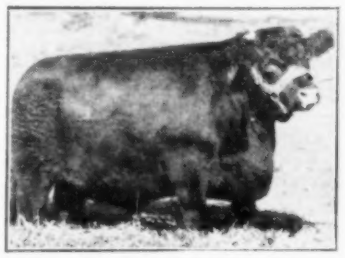
WORMY PIGS? Doctor Hinrichs' Hog Powder. Fifty to feed. No starving. ... HINRICHS REMEDY CO., WALCOTT, IOWA



Grand champion Angus at the American Royal, Envious Bardolier 3d, was exhibited by El-Jon Farm, Rose Hill, Iowa.



Grand champion female in National Shorthorn Show at the American Royal, Golden Rule Luxury, was exhibited by Holz Brothers, of Rippey, Iowa.

Muscatine county, Iowa. Reserve champion Angus steer was exhibited by Frank I. Canfield, Polk county, Iowa. Gene Ogden, Appanoose county, Iowa, had champion Angus steer in the 4-H classes.

In purebred Berkshire breeding classes, Bonnie Acres Farm, Ida county, Iowa, won premier exhibitor award. They had champion boar and sow, plus a number of other blues.

Iowa sheep flocks were represented by E. H. Rotter & Son, Lee county, showing Shropshires, and Paul Harris, Appanoose county, showing Cheviots. Rotter had champion and reserve champion ewe. Harris was constantly near the top, tho he missed on both Cheviot championships.

In the 4-H livestock judging contest, Clair E. Hein and Richard Thompson, both from Boone county, Iowa, ranked third and fourth. Another boy from Boone county, David Diehl, was thirteenth.

The Iowa State team won the collegiate livestock judging contest by one point. A team from Mississippi, coached by a former Iowa Stater, was second. Former Iowa State animal husbandry students also coached the fourth and sixth place teams.

Members of the 1949 judging squad, coached by Prof. Vern Kerchberger, are Robert Bellman, Warren county; Gene Egli, Calhoun; Herman Kastner, Guthrie; Gene Wiese, Carroll; George Lancaster, Plymouth; Richard Nelson, Boone, and Deane Rinner, Washington county.

"Say, bud, do I look like I had feathers?"

Imitations Plenty!... DUPLICATES NONE!

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WOLVERINE PIGSKIN WORK GLOVES

Tough Pigskin—tanned buckskin-soft. And now, with LANOLIN, that amazing softening ingredient added to the Wolverine Secret Tanning Process, they're softer, smoother than ever. And Wow! How they wear and wear! See your Wolverine dealer and take this coupon with you. Just try on a pair.

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ROCKFORD, MICHIGAN

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Hog Owners Can Buy and Use

HOG CHOLERA VACCINE

Eliminate risk by giving your pigs dependable immunity.

Save money by doing your own vaccinating —at your own convenience.

Colorado Hog Cholera Vaccine

is sold by local Drug Stores to farmers. Made under U. S. Government supervision. Thoroughly tested under the strict regulations of the U. S. B.A.I.

Colorado Serum Company has an unexcelled reputation for reliability. For 25 years their Anti-Hog Cholera Serum and Virus has provided top-rate protection. Now they offer the newer Hog Cholera Vaccine, fully tried and proven. Available through local dealers or direct to users.

Send today for free descriptive booklet.

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Denver 16, Colorado Council Bluffs, Iowa

CORN CRIBS and GRAIN BINS

CHAMPION "Hi-Quality" CRIBS

LOWER COST LONGER LIFE

Permanent, to last lifetime. Scientifically ventilated—keeps corn in perfect condition, dry, clean and bright. SAFE from rats and other damage. Shipped complete. Easy to assemble—easy to move. Many sizes, 1000, 2000, 2500 bu., etc. 40 years of premium quality.

CHAMPION "Hi-Quality" BINS

ORDER NOW
Immediate Delivery

Permanent, leak-proof, grain-tight. Easy to fill, easy to empty. Cheaper and better than building your own. All sizes, 700 bu. up. SELLING ALONE PAYS FOR YOUR CHAMPION CRIB OR BIN. Also silos, hog and poultry houses, garages, etc. SEE YOUR DEALER or write direct.

WESTERN SILO CO.
DEPT. W-11 WEST DES MOINES, IOWA

Clip Cows Regularly With Sunbeam STEWART CLIPMASTER

A Perfect XMAS GIFT for the Dairy Farmer

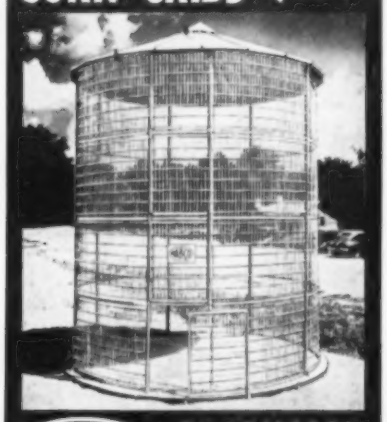
CLIPS Cows, Horses Mules, Dogs, faster, better

Clip your animals the fast, easy way with the new Sunbeam Stewart electric Clipmaster. It's the clipper with the quiet, 30% more powerful, air-cooled, ball-bearing motor inside the cool Easy-Grip handle. Has anti-friction tension control that assures perfect tension between blades and provides easy adjustment. $32.50. Write for information on Sunbeam Stewart clipping equipment.

SUNBEAM CORPORATION
(Formerly Chicago Flexible Shaft Company)
Dept. 101 5600 W. Roosevelt Rd., Chicago 50, Ill.

AGENTS WANTED: To sell direct to farmers new electric seat warmer for tractor seats. Nothing like it on the market. Sells easily when demonstrated. Write for complete details and territory desired. Lek-Tric Mfg. Co., 2408 Lewis St., Blue Island, Ill.

Hurry! ORDER YOUR HABCO ALL-GALVANIZED CORN CRIBS Now!



HABCO ORIGINAL ALL-GALVANIZED CORN CRIBS BUILT TO STAND UP THROUGH YEARS OF PROFITABLE STORAGE

SEE THEM ALL and you'll SELL yourself on HABCO CRIBS

LOOK CAREFULLY before you buy your crib. Look at them all and when you do you'll say: "HABCO, for quality and price, is the crib for me!" All-Galvanized, sturdy, re-inforced at every important point, HABCO Cribs assure you of highest quality, longest lasting, lowest per bu. cost. ORDER YOUR HABCO CRIBS TODAY!

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HABCO MFG. CO. Phone 4507 COLUMBUS, NEBR.

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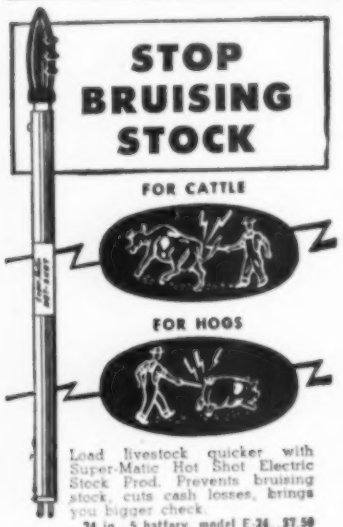

Load livestock quicker with Super-Matic Hot Shot Electric Stock Prod. Prevents bruising stock, cuts cash losses, brings you bigger check.

24 in., 5 battery, model E-24..$7.50
30 in., 8 battery, model HD-30 $7.95

If your dealer cannot furnish, order direct. Shipped PREPAID complete with batteries.

"Our Business Is Shocking"

HOT-SHOT PRODUCTS COMPANY, INC.
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SAVE UP TO $16 a Ton

BROWER Whirlwind FEED MIXER

Easy to use. 3 sizes . . . mixes 700 to 3000 lb. batches in 10 minutes. All steel, lasts for years. Over 8000 in use. WRITE for catalog today.

EASY TERMS

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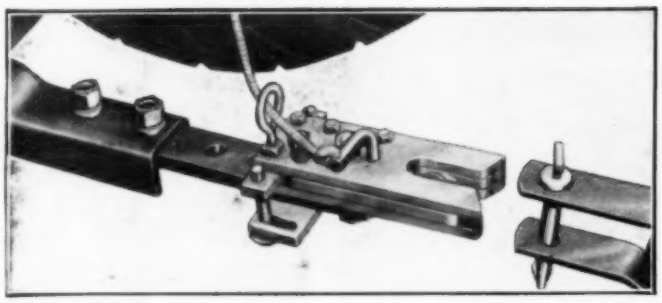
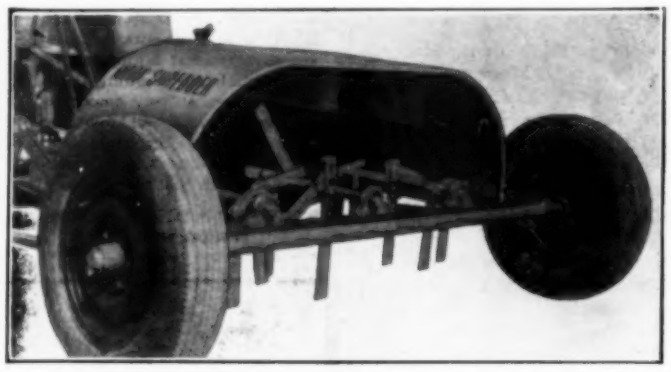


Tractor Hitch is self-locking, and is released by rope. Pick-up rod is provided, which makes it unnecessary for the tractor operator to get off the tractor for hitching and unhitching. Made by the Charles G. Walters Manufacturing Co.



Sixteen Hammers grind up the corn stalks when the tractor pulls this machine over the ground. Has three cutting heads. Center head set lower than the heads over the rows, so the shredder will fit the corn rows and will hit all the stalks. Adjustable from tractor seat. Made by the Horn Mfg. Co.

Chain Saw uses the power take-off of tractors and jeeps. It is easily guided because there is no backward and forward motion. Saw operates in any position—vertical, horizontal or at an angle. Cuts up to 4-foot logs. Weighs 106 pounds, and is entirely carried by tractor. Made by Von Ruden Mfg. Co.

Manure Spreader beaters have chopping and shredding effect. Manure is put on land in fine particles that will mix readily with the soil. Power take-off drive eliminates trouble when the ground is soft. Has 17 roller bearings and a one-man hitch. This spreader has been field-tested by the manufacturer, the Howry-Berg Steel and Iron Works, Inc.

Scientifically BALANCED FOR EVERY FEEDING NEED

POULTRY HOGS CATTLE

VICTOR FEEDS

A Proved Record of Results for Over 77 Years.

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CRETE MILLS • CRETE, NEBR.

It's Horse-sensible to BE PREPARED

● Don't risk being *out of* Absorbine when sudden trouble strikes! Put it on your shopping list *now* and pick up a long-lasting $2.50 bottle next time you're near a drugstore. With Absorbine handy, you're well prepared to help relieve bruises, strains, puffiness, lameness, etc. . . . *in a hurry!* Absorbine does not blister or remove hair.

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AIR COMPRESSORS

Brand New Reg. $60.50 Westinghouse Model T-1 Complete 18.50 F.O.B. Pgh.

Surplus Special at an amazing low price. Westinghouse Double-piston type, 6.54 volume. Mounts on truck or car engine,—or operate with ½ HP motor. For farm, home, industry. Instructions and spare parts kit included. Send check or money order. Weight 26 lbs.

Descriptive Literature on Request

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Ever-tite HAND HOIST

New "Double-Action" hand hoist cuts time and work 50%. Makes dump wagon out of any farm wagon. Raises up to 3 tons of grain, farm produce, etc., for unloading in a few minutes. Weighs 60 lbs., easy to move from one wagon to another. Many uses—raising poultry houses and other structures, logs, tractors or trucks for changing tires, pulling out posts, stretching fence wire. $50.00. Order through your dealer or write for circular. Ever-Tite Mfg. Co., 419 Washington St., Davenport, Iowa.

HE OWNS A GOOD-PAYING BUSINESS SO CAN YOU

"Made $50 many a day," he says. Free illustrated booklet tells of many others. Make good money, be your own boss grinding feed for local farmers. Big demand for custom grinding. Business grows and grows.

GEHL Direct-Drive PORTABLE MILLS pay for themselves out of profits. Terms to responsible parties. Two models . . . powered by special motor, Diesel or Gasoline (illustrated) or by truck motor. Sturdy construction . . . big capacity . . . economical to operate. Write for complete details.

GEHL BROS. MFG. CO.

Dept. PL-163 West Bend, Wisconsin

Only $498 OTTAWA Mule Team Tractor

Finest low-cost tractor. Costs too little to do without. Engines burn gasoline or kerosene. Starter and lights available. Other larger Models to choose from. Over 4,000 in world-wide use. Time-proved, tested. At low cost they easily mow, plow, disc, harrow, plant, cultivate, etc. Sold only direct to user. FREE details.

OTTAWA MFG. CO., 2-907 Garden St., Ottawa, Kan.

STORE SURPLUS CROP under a PERMCO TOP

A PERMCO TOP will cost less than $10.00 per year and save you hundreds—on a 10-year minimum—a sturdy roof that will withstand all winds and weather—easily put together and ready for immediate shipment.

Safe, Profitable Corn Storage—1,350 bushel crib complete $158.70—safe low cost approved storage.

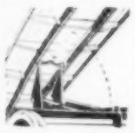
SEE YOUR LUMBER DEALER OR WRITE

PERMCO MFG. CO. PERU, NEBR.

MORE LIFTING POWER

DUMP LOADS FASTER . . . WITH LESS EFFORT

The Century Hydraulic Hoist is designed to save wear on both the truck engine and the hydraulic pump. Dumps load in 12 seconds . . . easy to operate and built for year 'round heavy duty service. Convert your farm truck into a modern low cost dump truck NOW for the harvest season ahead.



"AHEAD OF CENTER" LIFTING ACTION

begins ahead of center and follows the weight of the load in dumping. Positive control at all times.

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This Old Treatment Often Brings Happy Relief

When disorder of kidney function permits poisonous matter to remain in your blood, it may cause nagging backache, rheumatic pains, leg pains, loss of pep and energy, getting up nights, swelling, puffiness under the eyes, headaches and dizziness. Frequent or scanty passages with smarting and burning sometimes shows there is something wrong with your kidneys or bladder.

Don't wait! Ask your druggist for Doan's Pills, a stimulant diuretic, used successfully by millions for over 50 years. Doan's give happy relief and will help the 15 miles of kidney tubes flush out poisonous waste from your blood. Get Doan's Pills.

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Send 50 cents today for your copy.
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Wallaces' Farmer & Iowa Homestead
Des Moines, Iowa

SAVE YOUR LIFE!

Here's the kind of accident that could happen to anybody this time of year. It's a true story, told by Safety Specialist N. J. Wardle, of Iowa State College.

"FRANK, will you build a fire in the furnace this morning? It's getting chilly, and Janie has a cold."

Frank was heading out the door as Julia spoke. "Plenty of trash by the furnace," he told her. "Just throw some of it in and light it. You'll soon have a good fire."

Julia had never liked to make a fire in the furnace. It was a lot different than building a fire in the stove. In fact, she was just a little afraid of it.

But it was getting colder. And Janie's cough was hoarse. So Julia headed for the basement and surveyed the big furnace.

Frank had been right — there was plenty of trash by the furnace. Old boxes, crates and paper lay in a large pile at one side. Julia wondered again if that was a good idea. Several times, she had suggested to Frank that trash shouldn't be allowed to accumulate.

"Got to have things where you need them," had been Frank's usual answer.

Julia opened the furnace door, turned on the stoker switch, and waited for a small pile of coal to gather on the grate. Then she put some paper on the coal and piled on several scraps of wood.

Next she scratched a match on the furnace door, tossed it into the paper. It fell to the grate and died out. She scratched another match. This time, the head fell off as a glowing ember. It was so small, Julia paid no attention to it.

She struck another match, and this time held it to the paper. Soon, the paper was burning crisply, and she turned on the stoker again.

As she turned back to the furnace, she saw the blaze in the trash pile. Not a big flame—but it looked big to Julia.

How to put it out? She started to stamp the little jumping flames. A box was in the way. She kicked it away. Sparks flew.

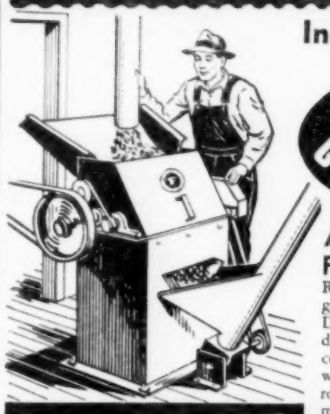
Now she stamped frantically at the many little flames. Then she noticed her dress was on fire. By the time she had run up the steps and out the door, she was a flaming mass.

Julia didn't die—as many do each year from just such accidents. Frank was passing the house as she came out. He grabbed a tarp hanging on the fence and wrapped her in it. But Julia always will have the scars on her legs.

Frank cleaned up the trash in the basement and put his fire supplies in a metal can. Have you done the same thing? Or will someone in your family have to catch fire before you clean up the hazards?

Remember: Be Alert! Don't Get Hurt!

FEED "Dust-Free" ROLLED GRAIN



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Farnam GRAIN ROLLER

It ROLLS CRACKS CRUSHES

Oats, Barley, Corn, Wheat Kafir - Any Small Grain

Better Feeding Results with 'DUST-FREE' Fresh Rolled GRAIN! Does it Faster, Cheaper

Rolled grains are recognized as far superior to hammered or ground grains because rolling crushes each kernel WITHOUT DUSTING, thus making it more palatable, and much easier to digest. Prepare all your feed grain this better way with a low cost, Farnam "Farm Size" Grain Roller. Roll it on the farm, when and as needed, at a lower processing cost. Feed it FRESH rolled, full of nutritive value. Make every bushel of feed produce more growth, more meat, more milk, more profit.

MAKE THIS TEST! Feed rolled grain for one week . . . Then try feeding ground or hammered grain. You'll be thoroughly convinced that rolled grain is a far superior, more economical feed.

Accept **Our "10-Day Free Trial" Offer**

Prove these claims to your satisfaction. Fill out and mail coupon below for illustrated literature and details of our "10-DAY TRIAL" offer.

YOU'RE PAYING for a Farnam Grain Roller . . . why not own one! If you feed hammered or ground grain YOU'RE PAYING

for grain lost because of dusting, blowing, waste!

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A TRIAL Will Convince You!

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Send me free Grain Roller literature and details of "10-DAY TRIAL" offer.

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BIGGER YIELDS LESS WORK WITH THIS BETTER COATS SHREDDER

You cut discing time in thirds . . . plow a clean, black field when you shred old corn stalks in the field with this improved Coats Stalk Shredder. No more "burning off." With the Coats Shredder you can return valuable plant food back to the soil for bigger crops. Fights borers, too. Kills worms right in the stalks, leaves no place for larvae to hibernate through winter. Super-strong construction. Superior shredding action. Adjust right from tractor seat.

WRITE for complete facts today. See how you can save work and boost yields with this Better Coats Shredder.

COATS LOADERS & STACKERS, INC.

KNOWN FOR DEPENDABLE FARM EQUIPMENT . DEPT. D, FORT DODGE, IOWA

"Wellworth" Sensational Offer! Reg. $60.50 WESTINGHOUSE AIR COMPRESSOR $21.50

Model T-1 Brand New

2-CYLINDER PISTON TYPE

Operates with ½ H.P. Motor or equivalent gas engine.

COMPLETE OUTFIT — 7 ITEMS
Compressor, pressure tank, air gauge, air chuck, 20-ft. hose, pop valve, copper tubing with 4 brass flared fittings for connecting compressor to tank, 4-way cross and 3 nipples.

$29.95 SHIPPING WT. 40 LBS.

IDEAL for HOME — FARM — FACTORY
Wherever Compressed Air Is Needed

For spraying paints, insecticides, etc.; inflating tires, operating air tools and many more uses. Automatic clutch makes it suitable for mounting and operating from trucks, tractors, etc. Instructions furnished. A fortunate purchase from the government enables us to offer you this amazing buy. All brand new equipment. Replacement parts available.

Compressor separately..... $21.50
Equipment less compressor.... $10.50

Prices f.o.b. Chicago. Sold on money back guarantee. Send check or money order today. Prompt shipment. Catalog free.

THE COMPRESSOR
Piston Type, 2-cylinder, 2 inch bore, 1½" Stroke Ball Bearing. 3.27 C.F.M. at 600 R.P.M. Capacity up to 6.54 C.F.M. Suggested operating pressure 75 P.S.I. DIMENSIONS: 9" wide, 11⅞" high, 6⅝" deep. Wt. 26 lbs.

TANK and ACCESSORIES
6" x 24" stainless steel tank suitable for 150 lb. pressure. Two ¼" openings. Air gauge, pop valve, air chuck, 20 ft. hose, Copper tubing and fittings as shown. Wt. 15 lbs.

This low price is but a fraction of the price of manufacturer and of leading mail order houses.

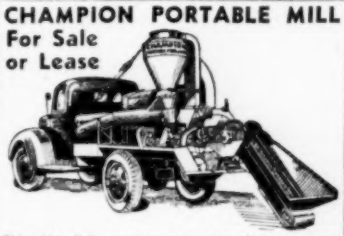
WELLWORTH TRADING CO. 1831 S. STATE ST., Dept. 50-A CHICAGO 16, ILL.

THE GRAUE SPLINE ADAPTER COUPLING

Quickly converts standard 1¼" Spline Power Take-off Shaft to 1⅜" size. Slips over shaft, two set screws. Easily removed if necessary to use 1¼" shaft on old implements. Made of High Tensile Cold Finished Steel.

MISSISSIPPI ENGINEERING CO., INC.
Grand Mound, Iowa

CHAMPION PORTABLE MILL For Sale or Lease



This 100 H.P. machine has extra large capacity on fine or coarse grinding. Quick delivery, now on hand units with ground level automatic feeder. Will lease complete unit to reliable men without investment or expense. Buy later if desired.

CHAMPION PORTABLE MILL COMPANY
2105 Como Ave. S. E. Minneapolis 14, Minn.

DEMAND MORE MONEY for CLOVER SEED

This year, as never before, *YOU* can get *premium prices* for cleaned and treated top-quality Clover seed! This year's Clover seed crop is *far below* expectations and *you* can *cash in now* by cleaning your seed with a fast operating Clipper 2B-Special seed cleaner! This cleaner is *really low-priced . . . easily* within reach of your pocketbook and—it comes *fully equipped* with labor-saving bagging elevator and 12 interchangeable screens. See it now at your nearest Hamilton dealer and see for yourself how this cleaner can make you *more profit!*

MAKE PROFIT! THIS NEW BOOKLET TELLS YOU HOW TO CLEAN AND TREAT SEED!

This new booklet—"Helpful Hints," shows you in simple, easily understood form just how to earn *high profits* through on-the-farm seed cleaning and treating! Complete with detailed illustrations, "Helpful Hints" is your *exclusive reference source* for seed processing information.

LET US SEND YOU THIS FREE BOOKLET TODAY!

W-2
Your Exclusive Clipper Representative
THE HAMILTON COMPANY
Cedar Rapids-Fort Dodge, Iowa

Gentlemen: Please send me "Helpful Hints."

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JOLLY HOG FEEDER

WELL FED HOGS MEAN BIGGER PROFITS!

V-shaped hopper gives the desired continuous feed flow. Self closing doors are suspended on continuous steel rod. Door edges rolled to prevent injury. Capacity 25 bushels, 2 compartments, 4 sliding regulators, 10 feeding doors. Feed is kept absolutely dry by the heavy lipped, easy operating cover.

C. C. JOLLY CO.
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KELLY'S SEEDS GROW

KELLY'S HIGH YIELDING

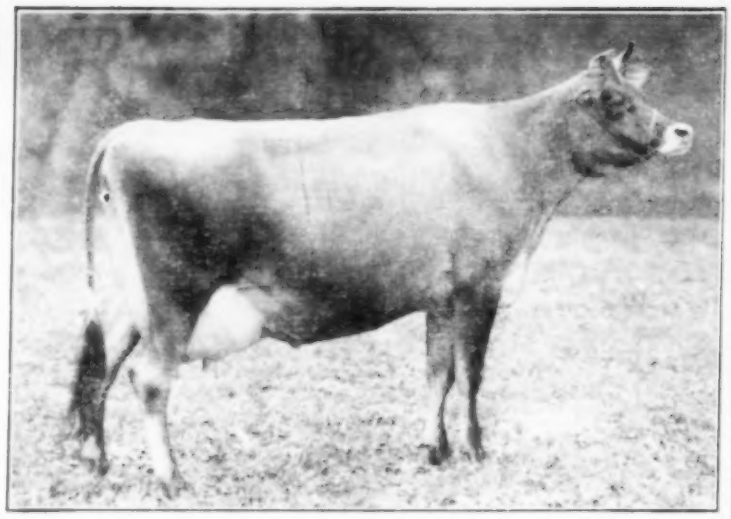
HYBRID CORN

Processed in the second largest corn plant in the world with best equipment we can buy. 29 years experience producing high yielding seed corn. 14 varieties $5.00 to $9.00 bushel freight paid.

Give your Kelly Dealer your order today or write us for catalogue. All kinds field and garden seeds at low prices.

KELLY SEED CO.
PEORIA, ILLINOIS SAN JOSE, ILLINOIS

FARMER'S WOOL made into Blankets, batting, robes, and yarn. Wool batting washed and carded, or made into blankets. Circular free. **MONTICELLO WOOLEN MILLS**, Monticello 6, Wisconsin.



This grand champion Jersey cow at the 1949 Dairy Cattle Congress was exhibited by Adams Brothers, from Moulton, in Appanoose county, Iowa. Name of the animal is Noble Volunteer Marie Princess.

Dairy Royalty Met At Waterloo

Iowans Held Their Own In Nation-Wide Competition At Dairy Cattle Congress

WITH every state in the Union, the District of Columbia, Canada, and 86 of Iowa's 99 counties represented, the Dairy Cattle Congress hit new highs of competition this year.

And Iowa breeders held their own in this, the stiffest of all dairy show-ring competition.

For years, the Appanoose county Jersey herd, founded by Jesse Adams, now carried on by Adams Brothers, has been showing at the Iowa State Fair and at Waterloo. They've had firsts, but never a championship.

This year, Adams Brothers hit the jackpot with a grand champion at both Des Moines and Waterloo. Noble Volunteer Marie Princess was senior and grand champion Jersey cow at the Cattle Congress.

Another Iowa cow, X Design Spice, shown by Claire Wemer, Mahaska county, was junior and reserve grand champion.

Senior and grand champion bull was exhibited by Jacob Neff, of Boonville, Mo., and Camfield Jersey Farm, Neosho, Mo.

In the Milking Shorthorn show, the cow pictured at the top of the next page, Jewel's Diamond, owned by Clampitt Farms, Hardin county, was senior and grand champion.

C. C. Chamberlain and O. K. Allen, Guthrie county, had senior and grand champion Milking Shorthorn bull, Broadview Watch.

Classes in the national Guernsey show (one of the two best breed shows) were something to behold. The list of home states of the blue ribbon winners reads like a travelog of the United States.

Senior and grand champion cow was the lone entry of Adhor Farms, Camarillo, Calif. She had been flown to Chicago, then trucked to the Cattle Congress.

The grand champion Guernsey bull was Cowham Farm Tress King, owned by C. F. Cowham, Jackson, Mich.

The Ayrshire breeders also put on a good show. Robert Seitz, Waukesha, Wis., scored a coveted double victory. He had the grand champion bull, Imp. Cluaron Glencow, and the top cow, Imp. Mille Roches Alma.

The national Brown Swiss Show brought out a truly grand array of that breed. In one class, the group of four-year-old cows, Judge Elmer Hansen, Chicago, Ill., had to choose between five previous 1949 state fair champions.

The Minnesota champion ended up with the blue, the Ohio grand champion was second, Wisconsin third, the Indiana reserve grand champion fourth and the Iowa grand champion sixth.

In the next class, the blue ribbon cow had just completed a national production record for Brown Swiss cows of all ages and classes—1,228 pounds of butterfat in 365 days.

This cow, Royal's Rapture of Lee's Hill, from Lee's Hill Farm, Morristown, N. J., was the grand champion cow of the show. Grand champion Brown Swiss bull was Bradenhurst Royal Challenger, owned by Old Elm Tree Farm, Winona, Minn.

Franlo Farms, of Hopkins, Minn., had the grand champion Holstein bull, Chip of Nettie & Aaggie. The top cow came from the Allen Hetts herd, Fort Atkinson, Wis. She was Crescent Beauty Lady Florida.

Like the other shows, the Holstein competition was rugged—it's bound to be when you have three or four all-American cows in the same ring.

In the Iowa 4-H Dairy Calf Club show, the various breed champions were shown by these club members: Ayrshire, Donald Funk, Black Hawk county; Brown Swiss, La Rita Bright, Hardin county; Guernsey, Jerome H. Satterlee, Buchanan county; Holstein, William Paschal, Fayette county; Jersey, Gary Armann, Polk county; Milking Shorthorn, Francis Larsen, Emmet county.

Also important are the competi-

BETTER TRACTION for quicker, easier work!

TRACTO-GRIP TRACTOR CHAINS

For positive and continuous traction on all ground conditions ask for Tracto-Grip Tractor Chains. You'll go right through mud, snow, ice and soft ground — quicker, easier and without stops for adjustments. Will not bind. Easy riding. One man can easily apply or remove. Write for literature. S. G. Taylor Chain Co., 142 141st St., Hammond, Ind.

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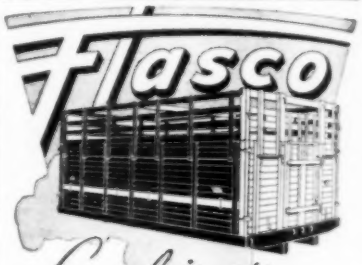
A GREAT NAME IN
Chain SINCE 1873



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Stock and Grain Bodies Wear Better, Last Longer

For longest, most satisfying service get the new Flasco body.

The new Flasco offers you: (1) The cream of wear improving ideas of thousands of truckers. (2) The top wear improving discoveries of our own body repair shop.

Our central stockyards location gives us thousands of contacts with experienced truckers. We repair many of their truck bodies. We know what truckers want and what wears best for them. You get our findings in Flasco.

We have engineered Flasco so that you can easily afford it. The price is highly competitive.

See your nearest dealer for quickest service and lowest prices. Or write us for his name.

FARMERS LUMBER & SUPPLY
516 S. Chambers, STOCKYARDS, Sioux City, Iowa

PIN-WORM Mystery Ended

The miseries of Pin-Worms have been known for centuries and millions of victims have sought a way to deal with these pests that live in the human body. Even today, experts report that *one out of every three* persons examined was infected with Pin-Worms.

But now you can and *should* do something about Pin-Worms. Because a new, scientific treatment—**Jayne's P-W Vermifuge**—offers *real* relief. **P-W's** principle ingredient is a medically-approved drug that attacks Pin-Worms in the intestines and removes them from the body.

So watch for the warning signs in your family... fidgeting, nose picking and especially the tormenting, embarrassing rectal itch. Then ask your druggist for **P-W**, the small, easy-to-take tablets perfected by the famous Jayne Co., specialists in worm remedies for over 100 years. Destroy these Pin-Worms... relieve that itch.

Just Remember: P-W ® for Pin-Worms!

INTRODUCTORY OFFER
MARVO-MEAL RAT KILLER

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Another
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HAROLD TIMM
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says:
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FOR HAMMERMILLS AND CORNSHELLERS
• It's Portable!
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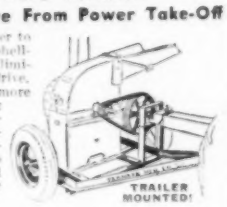
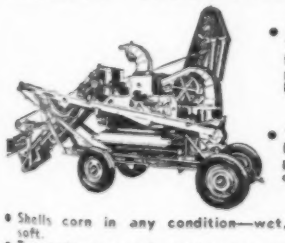


Here's the real answer to fast grinding and shelling problems! Eliminates long flat-belt drive. V-Belt Driven. No more dragging or staking down. Fully adjustable to fit all hammermills and cornshellers. No holes to drill. Just bolt mill or sheller to trailer platform.

WRITE NOW for free information and prices on this new POW-R-DRIVE. Sold by dealers everywhere. Economical time and work saver. Write today. Dealer inquiries invited.

Vermeer Mfg. Co., Pella, Ia.

THE "OTTAWA C"
CORN SHELLER



• 600 to 1200 bushels per hour.
• Takes less power to operate.

• Shells corn in any condition—wet, dry or soft.
• Tremendous capacity and economy of operation.
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• Available on automotive running gear.
• The "Ottawa" Line Products are backed by 90 years experience in manufacturing fine farm equipment.
• For further information consult your Ottawa Dealer or write direct to us.

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The "OTTAWA" Line
KING-HAMILTON COMPANY
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Dealers and Agents Wanted
Make EXTRA PROFIT from big demand for steel bins for sealing under government loan program. Some territory still available for live agents and dealers.
WRITE for literature and prices NOW.
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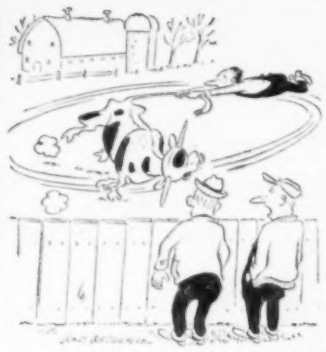
OUR ADS ARE NEWS



"I never saw the like! He gets into the toughest predicaments!"

tive judging and demonstration events held at Waterloo. Competing with teams from 30 other states, the ISC dairy cattle judging team, coached by Prof. Art Porter, won the top honors.

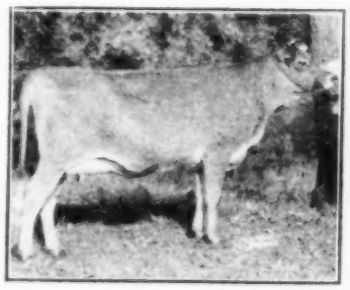
Members were Robert Bellman, Warren county; George Leland, Black Hawk county; George Lancaster, Plymouth county, and Joe Hoopes, Muscatine county.

Eighty-two teams competed in the FFA dairy judging contest. The high team was from the Lytton chapter, coached by LeRoy L. Truskap. Members were Jack Kelly, Jr., Donald Nekman and Dale Drum. High man in the contest was Bill Waters, Postville.

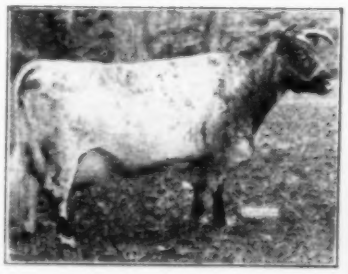
Robert Leggett, DHIA supervisor for the Franklin county, Iowa, association, won the interstate DHIA judging contest. Fifty-four supervisors from six states competed.

Another coveted award for the 4-H members is to be selected as "Champion Club Member" for their breed. Those awards went to Francis Larsen, Emmet county, on Milking Shorthorns; James Roskens, Dickinson county, was selected Ayrshire champion, and Marion Anderson, Des Moines county, was Jersey champion.

Champion Guernsey club member was Graydon Trimble, Black Hawk county; Holstein winner was Irvin Halsted, Story county, and Brown Swiss champion was Robert Schmidt, Scott county.



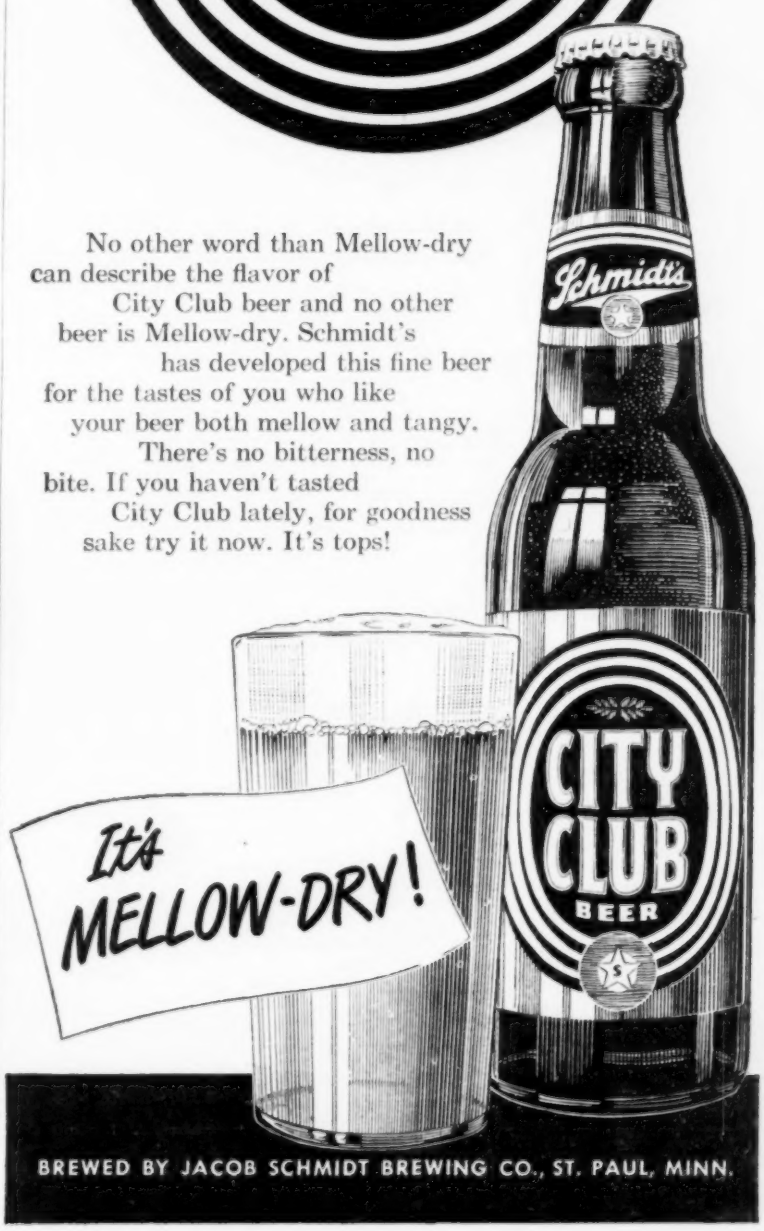
Reserve grand and junior champion Jersey female at Waterloo. Exhibited by Claire Wemer, Mahaska county, Iowa.



Grand champion Milking Shorthorn cow at the Waterloo Dairy Cattle Congress, Jewel's Diamond, was exhibited by Clampitt Farms, Hardin county, Iowa.

DELICIOUS
Mellow-dry
FLAVOR IN EVERY
DROP!

CITY CLUB
BEER



No other word than Mellow-dry can describe the flavor of City Club beer and no other beer is Mellow-dry. Schmidt's has developed this fine beer for the tastes of you who like your beer both mellow and tangy. There's no bitterness, no bite. If you haven't tasted City Club lately, for goodness sake try it now. It's tops!

It's MELLOW-DRY!

BREWED BY JACOB SCHMIDT BREWING CO., ST. PAUL, MINN.

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OVER FIFTY YEARS! Yes, for over 50 years, KIDMAN's has scientifically prepared and efficiently manufactured balanced feeds for all livestock and poultry. If you are not feeding KIDMAN'S already, switch today! Produce more, produce better, produce AT LESS COST with KIDMAN'S BALANCED FEEDS.

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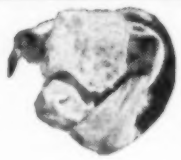
HEREFORD CALF SALE



Sale at farm, 2 miles southwest of

Colo, Iowa, Saturday, November 26th

Starting at 12:30 P. M.

45 HEIFER AND BULL CALVES
8 OPEN YEARLING HEIFERS
6 YEARLING BULLS

This richly-bred offering will include the calves which are taken off cows sale day and are grass fed only. The yearling open heifers are a desirable lot and the 6 yearling bulls will please. Calves are by WHR ROYAL TREDWAY 4th and ROYAL TRIUMPH . . . bred by WHR. These bulls, both sons of WHR ROYAL TRIUMPH . . . the sire of some of the outstanding herd bulls of America . . . among them are WHR STAR DUKE ($53,000), JR. FLASHY TRIUMPH ($48,000), WHR ROYAL DUKE 127th ($30,000), WHR CITATION, 1947 Champion at Iowa, Illinois and Wisconsin State Fairs. Breeding that will assure their future usefulness. COME. No catalog issued.

CARROLD A. IVERSON, 421 Ash Ave., AMES, IOWA

Auctioneer, J. E. Halsey

A Polled Shorthorn Dispersion

Fraley Sale Pavilion

CHILLICOTHE, MISSOURI
WEDNESDAY, NOVEMBER 23rd

54 Females — 7 Bulls

A complete dispersion of the Smith & Talbert herd, Lock Springs, Mo. The bulls include 4 yearlings ready for service and 3 senior calves. One son of OAKWOOD COMMAND, International grand champion, one by REGAL KING and others by VALLEY VIEW MASTERPIECE by Gloster Dale. The females include 29 cows and calves; 17 are by VALLEYVIEW MASTERPIECE, and 12 by OAKWOOD COMMANDER, International grand champion. 11 young bred cows mated to both sires. 5 attractive bred heifers and 9 open heifers. No herd has used better sires. Remember, a DISPERSION offers bargains. COME. Ask for FREE catalog. Kindly mention this publication. Address

MERVIN F. AEGERTER, Sale Mgr., SEWARD, NEBRASKA

Auctioneer, J. E. Halsey

D. L. ARMANN'S REG. JERSEY AUCTION

Polk City, Iowa, Friday, November 11th—12:30 P. M.

Sale at Farm, 12 miles north of Des Moines on Highway 65, and 6 miles west

40 HEAD — PRODUCTION TESTED and CLASSIFIED JERSEYS

22 YOUNG COWS—All have H.I.R. Records of Production and Classified for type. Many are daughters of FOREMOST CHANCE BILL, DHIA Proved Sire, 10 daughters average 475 lbs. fat.

16 BRED HEIFERS, YEARLINGS AND CALVES. Several are daughters of WOOD ACRES VALIANT BAS, Classified Excellent, GRAND CHAMPION BULL, Iowa State Fair, and of VOLUNTEER POMPOUS PEER, "Five Star" Bull.

2 CHOICE YOUNG BULLS, from high record dams. All Calfhood Vaccinated. T.B. and Bangs Tested. Ask for FREE catalog. Kindly mention this publication. Address

IVAN N. GATES, Sale Manager, WEST LIBERTY, IOWA

Auctioneer, Joe Reisch

LIVESTOCK NEWS

The W. E. Kruckeberg Milking Shorthorn herd, from Charlton, Iowa, was dispersed at Sheldon, Iowa, October 20, along with consignments from several other breeders.

Most of the offering was young heifers two years old and younger. The 44 females sold for an average of $255. A seven-year-old cow from the Kruckeberg herd sold for $350 to Herbert Hoelscher, Mayview, Mo. Same price was paid by Robert Wolf, Sheldon, for a five-year-old consigned by Floyd Crest Farms, Sheldon.

E. M. Peters, Gilmore, Iowa, consigned the high-selling bull, a two-year-old bred by Hilmer Larson, Wallingford, Iowa. Wayne Keith, Burt, Iowa, paid $365 for this bull. The 13 bulls, including several young calves, averaged $240. Walter Kruse, Sheldon, managed the sale, with B. B. Allen as auctioneer.

Albert Hultine & Sons, of Saronville, Neb., held their 50th anniversary sale of Polled Shorthorns at Lincoln, Neb., October 6. The sales 49 lots made a general average of $450.

Top bull was Riverside Control, a son of Collynie Progress. He sold for $2,175 to Cross Bros., Douglas, Wyo. Riverdale Stamp, by Riverdale, sold for $1,400 to William Rosenburger, Gransburgh, Kan.

Riverside V. Butterfly, by Riverdale, was top female, selling at $750 to Sporting Field Farm, Silver Springs, Md. Riverside Bracelet, also by Riverdale, went to R. N. Setterdahl, North Henderson, Ill., for $600.

The 11 bulls averaged $759, with 38 females at $269. Sale manager was Merv Aegerter, with Halsey and Swaffar the auctioneers.

C. T. Keen & Sons averaged $162 on 39 boars in their annual Chester White sale at Legrand, Iowa, October 21. Admiral, first prize junior spring boar at the 1949 Iowa State Fair, topped the sale at $565, selling to Seth Johnson & Son, Kiron, Iowa. Lester Baustian, Grinnell, Iowa, paid $250 for another young boar.

The 19 spring gilts averaged $114, with the top gilt selling to Carl Beldner, Dexter, Iowa, at $177.50. C. G. Mason sold the offering.

The Berkshire sale of Mr. and Mrs. Milo Wolrab, Mt. Vernon, Iowa, October 17, saw a top of $750 paid for Picket's Transfusion, Illinois junior and reserve champion. He sold to Rex Whitmore, Burlington, Wis. A litter-mate, Picket's Royalist, went at $560 to Toohey Bros., Oakford, Ill.

Top gilt was Prestige Charmer, which sold for $190 to Ives Stock Farm, New Boston, Ill.

Boar average was $203 for 18 head, with 38 gilts averaging $80. Auctioneer J. E. Halsey sold animals to buyers from Iowa, Wisconsin, Illinois and Minnesota.

The Bianchi Hereford Ranch sale, at Macon, Mo., October 11, saw 70 head selling for a general average of $1,009. Top bull was BHR Helmsman A 18th, 1949 Missouri champion. He went to Graceland Farms, Waynesville, N. C., for $7,000. A January, 1949, bull calf, sired by WHR Helmsman 8th, sold to Olvey Hereford Ranch, Harrison, Ark., for $5,000. The 29 bulls averaged $1,394.

BHR Miss Helms A 13th, 1949 grand champion female at Iowa, Illinois and Missouri, topped the females. She sold at $4,300 to C. K. Ranch, Brookville, Kan. A yearling heifer, daughter of WHR Helmsman 83d, sold for $2,700 to Green Top Farm, Seymour, Ill. The 40 females averaged $855.

The sale attracted about 1,000 visitors, with cattle selling to buyers from eight states. Auctioneers were Thompson and Fulkerson.

Top bull in the Botna Aberdeen Angus Association's annual sale at Atlantic, Iowa, October 11, was Black Burton, from the Wayland Hopley herd. He sold to Henry Zickrick, Spring Valley Farms, at $150.

Top female was Quality of Farvue 2d, selling at $700 to C. E. Varley, Stuart, Iowa. Both Varley and Zickrick also bought females at $470.

An average of $180 was paid for 51 steers at the annual purebred Shorthorn Club calf sale of Otto Thiede & Sons, Burton, Neb. The sale was held at Cherokee, Iowa, October 8. Tops were the $375 paid by Max Book, Storm Lake, Iowa, and the $370 paid by Henry Palkratz, Mountain Lake, Minn.

Average for 26 registered heifers was $179. Highs were the $300 paid by Dewar Bros., Cherokee, the $265 paid by Hugh Linn, Gilmore City, Iowa, and the $255 paid by Larry Lee Nelson, of Corning, Iowa. Lyle Olson, Belmont, Wis., bought 17 heifers.

Harry Dewar was the auctioneer, and sold calves to buyers from Iowa, Wisconsin, South Dakota and Minnesota.

Botna Valley Aberdeen Angus Association's annual sale at Harlan, Iowa, October 11, made a bull average of $320 and a female averge of $200. A number of steer calves also were sold at prices ranging from $135 to $215.

Top bull sold for $450 to Henry Zickrick, Bayard, Iowa. Next high was the $330 paid by E. F. Hoeck, Carson, Iowa, for Bessie's Bardolier of Ada.

C. E. Varley, Stuart, Iowa, paid the female top of $700. Spring Valley Farms, Bayard, Iowa, took one at $470, and Varley another at $450.

Nels Kraschel and John Cruise did the selling.

Pearson Stock Farm's Duroc sale, at Radcliffe, Iowa, October 3, saw the top boar sell for $1,200 to William Vassen & Sons, Cuba City, Wis. Top gilt went to the Clarion, Iowa, FFA chapter at $270.

The 38 boars averaged $181.20 and the 15 gilts $120. Hogs went to buyers in seven states.

A 97-head average of $436 was made at the Whittum & Herkelman Angus sale, at Stuart, Iowa, October 12. Auctioneers N. G. Kraschel and Ray Simms sold cattle to buyers from several states.

The 22 bulls, including 13 calves, averaged $319, with 75 females averaging $476. The female offering included 18 cows, 33 heifers and 26 cows with calves at side.

The Burr Hereford Farms sale, at West Liberty, Iowa, October 10, averaged $728 on 44 lots, including 23 head calved in 1948.

Top bull was the herd sire, Real Bruce DK 17th, going to Frank Crow & Son, Oxford, Iowa. A cow and calf combination was high for females, the cow going at $400 to Jim Berkett, West Liberty, and the heifer calf for $260 to Dale Mohr, also of West Liberty.

Auctioneer Tom Sherlock sold all lots to Iowa buyers except four, which went to Illinois.

L. E. Dailey & Son, Pipestone, Minn., made a general average of $104 on 24 Minnesota No. 1 boars, in their annual sale, October 12. Delphin Roger, Jasper, Minn., paid top boar price of $160. A number of gilts were sold for an average of $75.

Juhl Bros.' 64th Duroc sale, at Luverne, Minn., October 10, made an average of $153 on 51 boars. J. H. Samuelson, Ida Grove, Iowa, paid high price of $415 for a herd boar prospect.

High on gilts was the $190 paid by D. F. Hindman, Marion, Iowa. The 29 spring gilts averaged $118. The offering sold to buyers from Iowa, Missouri, Kentucky, Minnesota and the Dakotas.

Angus Breeder Dies

Henry S. Johnson, 67, senior member of the Aberdeen Angus firm of Johnson Bros., Ida Grove, Iowa, died October 2, after a long illness.

Born in Sweden, Johnson came to this country in 1893. While still a young man, he and his brother John formed a farming partnership which lasted nearly half a century. They specialized in raising purebred Angus, a venture which made them widely known among livestock men. Henry had retired from active participation in the partnership in 1948.

PAW TUCKER—"It Only Takes One Accident"

VICTOR E. GEISTFELD

DISPERSAL

Complete dispersal of one of Minnesota's leading farmer-breeder herds.

60 REG. GUERNSEYS

29 milking age. 4 heifer calves.
7 bred heifers. 6 yearling bulls.
10 Open yearlings. 2 bull calves.
1 herd sire.

A QUALITY HERD

Scoring type. In DHIA for many years and all producers good transfer records. Most of the females of breeding age are daughters of (1) Holly Farm Corporal, a proved son of Langwater Gascon, from a 741-lb. (CC) dam, (2) Green Meads County Valiant, a proved son of Langwater County Squire, from a 604-lb. 2-year-old daughter of Langwater King of the Meads, (3) Green Meads Northern King, a proved son of Langwater King of the Meads, from a 604-lb. (D) daughter of Langwater Northern.

THE HERD SIRE

Meadow Lodge Climax's Governor, a 5-year-old grandson AR son of Bournedale Rex and a 758-lb. 2-year-old daughter of Langwater King of the Meads. His dam is a 631-lb. (D) daughter of Bournedale Rex, from a 901-lb. daughter of Westbrook Supreme. 21 of his offering also selling.

CALFHOOD VACCINATED

No reactors in 8 years. TB tested. No mastitis.

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1:00 P. M. at Mellor Farm, 4 miles west of
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Minnesota Sales Company's Liberal Terms
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HAMPSHIRE BOARS

Fall and spring boars, immune and eligible to register. Sired by the 4 top sons of $1,000 NEWS FLASH by BELLRINGER out of COMPREST, GOLDDUST and FAULTLESS DAMS. Top selling barrow at Kossuth County Fair is of FAULTLESS breeding and was purchased jointly by us and Harold Fischer. Over 200 boars sold by us last season. If it's the meat-type rugged Hamps you are looking for, see us.

HEREFORD CATTLE

RUPERT bred bulls. Serviceable age, nice dark rugged bulls.

JOSEPH A. SKOW
WESLEY - - - IOWA

Red Polled Cattle

At Normal University
NORMAL, ILL., NOV. 22d
SHOW—10:00 A. M. SALE—12:30 P. M.

40 FEMALES — 20 BULLS

The very best Dual-Purpose Red Polled Cattle, consigned from the leading herds of Illinois, Iowa and Wisconsin. Raise RED POLLS for MILK, BEEF and BUTTER-FAT. Ask for FREE catalog. Kindly mention this publication. Address

R. Y. BARTHOLOMEW,
Sale Chairman
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BANQUET: 7:00 P. M., November 21st. Illinois Hotel, Bloomington, Illinois

Selling at Private Treaty

DUROC BOARS

Offering a grand selection of well grown boars with plenty of style and balance. Mostly sired by the Champion of the 1948 National Barrow Show and top selling boar over all breeds.

ROBIN HOOD'S PRIDE

Especially suited for the farmer and priced to sell. Visit the farm, write, or phone.

S. C. SCHRAGE
EAGLE GROVE - - IOWA

Spotted Poland Sale

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ALBIA, IOWA, NOV. 10th
Night Sale

50 BOARS — 35 GILTS

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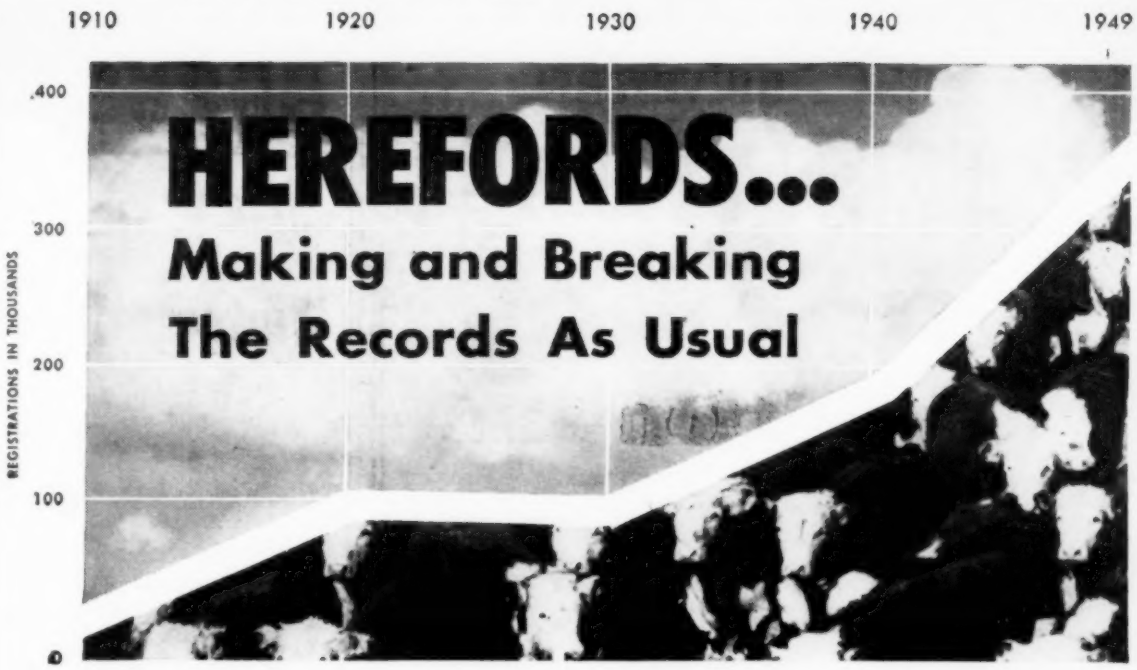

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For Any Breed of Livestock!

In the fiscal year just closed (August 31, 1949) 35,000 Hereford Breeders, located in every state, recorded over 370,000 new Hereford calves to pass another milestone in American Animal Husbandry progress.

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Herefords produce more POUNDS and PROFIT from GRASS, ROUGHAGE, and GRAIN — that's why they lead the beef production field — that's why they are the choice of the breeder, the feeder and the packer.

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Please send me the following:
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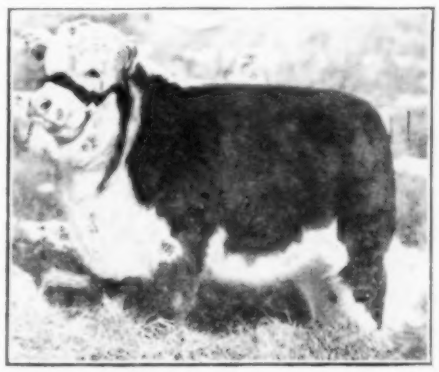
The International HEREFORD SALE

In connection with the International Livestock Show

CHICAGO
Tuesday Night
NOV. 29, 1949
International Sale Pavilion



60 Head

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It's an offering we know you will like!

WRITE FOR A CATALOG

AMERICAN HEREFORD ASSOCIATION
300 West 11th Street Kansas City 6, Missouri

STATEMENT OF THE OWNERSHIP AND MANAGEMENT

Of Wallaces' Farmer and Iowa Homestead, published semi-monthly at Des Moines, Iowa, for October 1, 1949.

State of Iowa; County of Polk—ss

Before me, a notary public in and for the state and county aforesaid, personally appeared Dante M. Pierce, who having been duly sworn according to law, deposes and says that he is the publisher of Wallaces' Farmer and Iowa Homestead and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Acts of March 3, 1933, and July 2, 1946 (Section 537, Postal Laws and Regulations).

1. That the names and addresses of the publisher, editor, managing editor and business manager are:

Publisher — Dante M. Pierce, Des Moines, Iowa.
Editor — Donald R. Murphy, Des Moines, Iowa.
Managing Editor — Donald R. Murphy, Des Moines, Iowa.
Business Manager — Dante M. Pierce, Des Moines, Iowa.

2. That the owners are: The James M. Pierce Corporation, Des Moines, Iowa; Dante M. Pierce, Des Moines, Iowa; Ray S. Pierce Estate, Des Moines, Iowa; Anne Pierce Schnabel, Des Moines, Iowa; Ray S. Pierce Trust, Des Moines, Iowa; Anne Pierce Schnabel Trust, Des Moines, Iowa; Elsie S. Pierce, Des Moines, Iowa.

3. That the known bondholders, mortgagees and other security holders owning or holding 1 per cent or more of the total amount of bonds, mortgages or other securities are: Equitable Life Insurance Co. of Iowa, Des Moines, Iowa.

4. That the two paragraphs next above, giving the names of the owners, stockholders and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company, but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association or corporation has any interest direct or indirect in the said stock, bonds or other securities than as so stated by him.

DANTE M. PIERCE,
Publisher and Business Manager

Sworn to and subscribed before me this first day of October, 1949.

M. M. LOWMAN.
(Seal)
(My commission expires July 4, 1951.)

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November 26 to December 3

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Winterset, Iowa, Wed., Nov. 16th

52 Good Females—7 Bulls

The sale will feature the progeny and service, also the sale of the herd bull, **EPPONIAN OF ROSEMERE 19th** 923056, a son of Double Epponian of Le Baron by the International Grand Champion. A great young bull, an impressive sire. You will like his calves. A real sire for someone. 5 good well-bred young bulls ready for service. The females are a grand lot and 25 cows sell with top quality calves by the herd bull. Many choice young cows and heifers sell mated to him. This sale was caused by the health of Mrs. Peters, whose illness demands a move to a different climate. All sold fully guaranteed. Remember, a Dispersion offers bargains.

C. R. Drake, Winterset, Iowa, offers a select draft of 1 bull, **BURGOINE'S ELBAMERE,** the sort for a herd bull. Also 8 females which are half sisters to the bull, and 1949 **AK-SAR-BEN,** Grand Champion Angus steer. The type and quality will please. Plan to attend. Ask now for **FREE** catalog. Kindly mention this publication. Address

ABERDEEN-ANGUS JOURNAL, Sale Mgrs., Webster City, Iowa

M. T. White, Fieldman

Central States Shorthorn Show & Sale

SHOW—9:30 A. M. SALE—12:30 P. M.

Judge of Bulls: LeRoy Brown, Lamoni, Iowa
Judge of Females: Billy Anderson, West Liberty, Iowa
At Southern Iowa Fair Grounds Pavilion

Oskaloosa, Ia., Sat., Nov. 12th

"The Sale of the Red, White and Roans"

22 GOOD RUGGED BULLS
41 WELL-BRED FEMALES

A splendid offering drawn from 23 well-known herds; which are rich in breeding, pleasing in type, merit and quality. The females include 13 grand young cows, many with calves by great sires, and most are rebred. Others well forward in calf to top herd bulls. 28 beautiful, 1948 open heifers, by good sires, ideal to mate to your great herd bull. Females of foundation character. The 22 bulls most all ready for service and include real herd bull material. A bull that will please the bull buyer, both Farmer and Breeder. **Emmett Franklin & Sons** offer 3 choice **POLLED SHORTHORNS,** 1 bull and 2 females.

THE CONSIGNORS:

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Arthur Synkerson	Oskaloosa
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Evergreen Farms	Columbus Junction
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William C. Allen	Ackworth
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Wayne A. Carr	Cincinnati
C. & C. T. Van Lint	Pella
Chas. Johnson	Birmingham
Pete Hardemon	Montezuma
Worth Rankin, Jr.	Pleasantville
W. E. Carter & Son	Brimfield, Ill.
Jones Bros.	Granger, Mo.
Oakdale Farms	Granger, Mo.

The blood of great sires are represented such as Calrossie Prince Peter, Royal Edwin, Will-A. Dell Gold Plate, Bugler's Champion, Helfred Marauder, Prince William 16th, Millhills Ranson, Helfred Bampton Major, Sni-A-Bar Statesman, Royal Goldfinder, Helfred Majestic, Herjadon Marksman, Victor's Reserve, Milhills Cumberland, M. F. Senator, Leveldale Renown, Sunray Victory, O. A. C. Augusta's Archer, Divide Outward, Newallayn Golden Cupnearer, Divide Autocrat, Ed Ru Command, Roan King, and Bampton Major (Imp.). Breeding unsurpassed. The large number affords a wide selection. **COME.** Ask now for **FREE** catalog. Kindly mention this publication. Address

C. E. STEWART, Sale Mgr. Twin Valley Farms, ROSE HILL, IOWA

Auctioner, J. E. Halsey M. W. Boney, Fieldman

Advertisement

From where I sit ... *by* Joe Marsh

A Tonic For The Missus

The missus came marching in with a new hat yesterday. She was as happy as a circus poster.

I've learned one thing about the hats she buys. A hat is a tonic to her. If she's feeling blue, nothing gives her a lift like a new hat. Now, I could trade in my old grey fedora without raising my blood pressure a notch. But I'll admit that more than once I've bought a new briar pipe I didn't need—just because life was getting a little bit monotonous.

With Buck Howell it's something else again. When Buck is feeling low, he gets over it by blowing on a broken-down clarinet he hasn't mastered in twenty years.

From where I sit, different people are *always* going to respond to different things in different ways. So let's keep a friendly understanding of what other folks get out of a new hat, an old clarinet, a chocolate soda or a temperate glass of sparkling beer or ale now and then.

Joe Marsh

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2 GUERNSEY SALES

185 HEAD TO SELECT FROM

Western Wisconsin Guernsey Sale

West Salem, Wisc., Thurs., Nov. 10
Starting at 12 Noon
60 HEAD
10 High Quality Bulls, 50 Choice Females

Here is a top consignment sale from the herds of leading breeders in Western Wisconsin. Real type, excellent breeding and production.

LA CROSS COUNTY
SEMI-ANNUAL SALE
West Salem, Wisc., Friday, Nov. 11, 1949
Starting at 10:00 A. M.
125 HEAD

A few top registered bulls and the others, outstanding high grade cows and heifers of the right kind. The large number affords a real opportunity of a wide selection. **DON'T MISS THESE TWO SALES. COME.** Ask now for **FREE** catalogs. Kindly mention this publication.

VILAS E. YOUNG, Secy., WEST SALEM, WISCONSIN
LA CROSSE COUNTY GUERNSEY BREEDERS, INC.

ARCHLAND-EVANS-CATTERSON SALE

Aberdeen Angus Cattle!

MARYVILLE, MO.
MON., NOV. 14th
Highway 71 Sale Barn

70 — HEAD — 70

MRS. ROL. EVANS' DISPERSION—27 FEMALES—15 cows with calves at foot by **EMULATE QUALITY**, by Burgess Eston Quality, by Eston of Quality. 16 of the females sired by **EMULATE ENECHO**, including the dam of Envious Emulous as established in 1922 by the late Rol Evans. **NOW THEY SELL.** The herd was established with outstanding females and top bulls were always used in the herd. Among the top families are McHenry Barbaras, Evergreen, Enchantress Ericas, Juana Ericas, Elsa, McHenry Blackcap, Fashion Elbas, Bandy Maid Miss Burgess and Witch of Endor.

HAL CATTERSON—20 FEMALES—Many sired by **EVETON OF QUALITY**, a very good [illegible] **ESTON OF QUALITY**. Many will have calves at foot and bred to **EVER PRINCE REVOLUTION**, by Ever Prince of Sunbeam, or by **JUAN 3d OF ARCHLAND**, by Prince Burgess K. This herd was established in 1897 and the quality has always been of the highest standard.

ARCHLAND FARMS—23 FEMALES—15 cows with calves at side and the rest of the cows and heifers are bred. Calves are by and the cows and heifers are bred to **PRINCE BURGESS K.** or **PRINCE BURGESS 106th**, both sons of **EVER PRINCE OF SUNBEAM**. In the offering are granddaughters of three International Grand Champions, **BLACK PRINCE OF SUNBEAM, EILEENMERE 85th** and **ENVIOUS BLACKCAP B. 6th**. Families include Blackcap Besdes, Bandy Maid Georgina, Juana Erica, Miss Burgess, McHenry Barbaras and Enchantress Ericas.

For foundation or herd improvement females this sale offers a wide selection to choose from, popular families and top individuals. Plan to attend. Write at once for **FREE** catalog. Kindly mention this publication. Address

LEO L. ARCHER, Sale Manager, CONCEPTION, MISSOURI
Auctioneer, Johnston & Sims M. T. White, Fieldman

TAMA HEREFORDS

Marshall Livestock Auction

MARSHALLTOWN, IOWA
MONDAY, NOVEMBER 14, 1949

TAMA CAMEO 1st

60 LOTS

6 Herd Heading Prospects

35 Young Cows, Several with Calves

10 Great 2-Year-Olds

9 Open Heifers

A grand lot of breeding cattle from a well-bred herd where top quality cattle are produced. Sold in every day condition, right off pasture. They are sired by **WHR HERITAGE 27th, WHR MOLDER 5th, WHR TRIUMPH DOMINO 13th, WHR CAVALIER 19th, WHR SUPERFECTION** . . . the best in **WHR** blood lines. 10 wonderful 2-year-old heifers, some have calves at side, others are bred. An attractive lot of open yearling heifers. The bulls include an outstanding 2-year-old bull and 5 top yearling bulls. Real herd-heading prospects. Foundation material can be secured here.

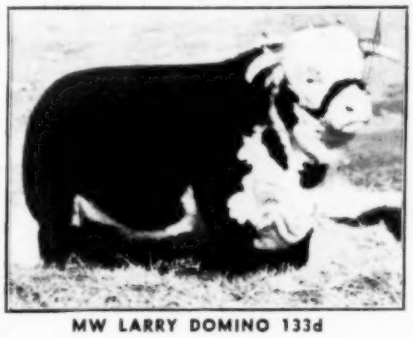
W. K. PAULSEN, Chelsea, Iowa, herd will be dispersed. There will be 35 lots. They are large rugged cattle, with great heads, an excellent set of cows, strong in the best **MOUSEL** blood lines.

This will be one of the opportunities of the season to select cattle that will be real **MONEY-MAKERS**. Plan to come. Ask for **FREE** catalog. Kindly mention this publication. Address

A. J. MINISH & SONS, DYSART, IOWA
Auctioneer, J. E. Halsey

ATTEND
Circle A's 2nd
INTERNATIONAL FALL SALE

FRIDAY, NOVEMBER 25, 1949
SELLING 60 FASHIONABLY BRED HEREFORDS
SALE BEGINS AT 12:00 NOON C. S. T.



MW LARRY DOMINO 133d

1949
CHAMPION BULL

IOWA STATE FAIR
ILLINOIS STATE FAIR
INDIANA STATE FAIR
KENTUCKY STATE FAIR
STATE FAIR OF TEXAS

Pictured above is MW Larry Domino 133rd, Circle A's 1949 sensational grand champion bull.

MW Larry Domino 133rd, a son of the top register of merit sire, Larry Domino 50th, was added to the Circle A herd bull battery in January at a cost of $25,000.

Circle A's Second International Fall Sale on November 25 will feature many heifers bred to this champion bull. The produce of Circle A's other champions, WHR True Molder and WHR Citation will also be available in this sale.

Circle A's Second International Fall Sale will make register of merit and championship breeding available to Circle A buyers. Attend Circle A's sale on November 25 and take advantage of this rare opportunity to buy championship blood. Kindly mention this publication.

CATALOG FREE UPON REQUEST

CIRCLE A HEREFORD FARM
MORRIS, ILLINOIS
Auctioneers: Art Thompson, Charles Corkle, Jewett Fulkerson

52 Reg. Holsteins

(Complete Dispersal)

TILNEY FARM & CHARLEY HIATT

(Partnership)

Located at Farm, 2 miles North and 1½ miles East of

TRUMAN, MINNESOTA
SATURDAY, NOV. 12, 1949

A Herd with an Average Test of 4%

Continuous testing since 1929. All cows with complete lactations have records ranging from 400 to 774 pounds of butterfat.

This includes 16 head of high record polled (Hornless) Holsteins.

All cows are bred to a high record polled sire, Dehorn Admiral Ormsby 1030266. He is a son of the well proven sire, Wimbledon Ollie Ormsby, and of a 702 pound 2y 4.0% daughter of Pabst Sir Belmont Columbus who increased production 145 pounds on 390 pound dams.

SALE WILL BE HELD UNDER COVER

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Lewisville, Minnesota

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Add 2% sales tax, please.
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Choice thick bulls, serviceable age by

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By MILLHILL STARRY ARCHER (Imp.), sire of champions, heads our herd. Now offering two splendid young Shorthorn bulls for sale. Choice individuals and good pedigrees. Pleased to show you what we have any time. Call and see us. Address

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Choice young bulls offered.
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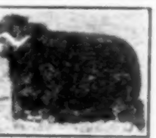

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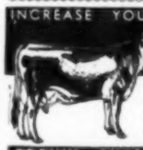

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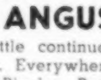

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Ellenmere Erie W. 24th, No. 957299, for sale. This bull is 3 years old and his mother is a granddaughter of Ellenmere 15th, No. 398457. I am forced to sell this bull to avoid further inbreeding. Come and see his calves.
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Choice Bulls of serviceable age and others younger. Few mature cows and heifers. Production and good record ancestry. Reasonable.
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MAPLE GROVE CRITIC 5th 1949 Ia. Grand Champion

Choice, large typed boars and gilts, the type with quality by MAPLE GROVE CRITIC 5th, 1949 Iowa grand champion boar, and by MAPLE GROVE BARON 23rd and JUPITER. Reasonable.

Eugene E. Fitz, Melbourne, Iowa

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- ☐ Tamworth
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Yield Better Carcasses

Use a Berkshire boar this fall and increase your profits. For FREE information and breeders in your territory, write

Eugene Fitz, Secy., Melbourne, Iowa
IOWA BERKSHIRE BREEDERS ASSN.

BONNIE ACRES FARM
Berkshire Hogs — Hereford Cattle
Spring and fall boars. Full brothers to 1949 Iowa Jr. Champion. Large selection priced to sell.
TOM CONOVER HOLSTEIN, IOWA

CHESTER WHITES

Chester White Boars
55 top quality boars sired by PORTAGE ELATION, DANDY MODEL and COPP'S GRANDMASTER. Some state fair winners. New blood for old customers. Write or visit.
ROY V. COPP GLIDDEN, IOWA

CHESTER WHITES
25 boars and 30 gilts sired by THE CHAMP and FOUR SQUARE. These are short legged, long bodied and deep sided, the best in IOWA, the best in the U. S. Immune, blood tested and guaranteed. Also 7 fall boars.
ROBERT LANIGAN
Fairbank, Iowa

CHESTER WHITE BOARS
Top outstanding individuals, March and April farrow by PERFORMANCE CHIEF 558527, PRODUCER'S PROFESSOR, LUCKY'S MODEL LAD and WHITE KING 569877 bred by Oklahoma A&M College. Anyone looking for a good bred boar, well-grown and the type in demand today with a well balanced body, excellent Ham and good feet, with smoothness, size and quality all the way around, inspect our herd. New blood for old customers. Immuned. Pedigree furnished. 45 years breeding purebred Chesters. Reasonably Priced. Visit us or write.
F. H. SCHMADEKE & SONS, CLARKSVILLE, IA

QUALITY CHESTER WHITES
Now offering big, rugged spring boars sired by WILLEY'S SILVER BALANCER, RITE MODEL and RALEIGH. There's some real good prospects among them. Come, look them over, or write for reasonable prices.
ROSS O. WILLEY & SON
Onawa, Iowa

CHESTER WHITE BOARS
Grandsons of THE DAZZLER; well grown with style and quality. A good selection at farmer prices. See these before you buy.
GLEN L. RINEHART BRITT, IOWA

PUREBRED CHESTER WHITES
Choice spring boars and gilts, also fall boars. Best blood lines. One or a truck load. The kind you like. Farm 6 miles of Corning on No. 34. Price right.
LEONARD MORRIS PRESCOTT, IOWA

CHESTER WHITE HOGS
We still have some extra good boars and a few good gilts and tried sows. Boars and gilts are sired by Top Spot, a son of Spot Light. Dams are sired by Silver Mine and Iowa Chief. Very good. Priced to sell. Double immuned. 4½ miles southeast of Woodland, or 8 miles northwest of Lineville.
ROY BISH R. No. 2, LINEVILLE, IOWA

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IMPROVE YOUR DUROCS

BOLD PRINT
By Mr. Blue Print

with a spring boar sired by BOLD PRINT or by GLORY BOUND 1st at Missouri
A grand selection
WRITE OR VISIT
Walter Riebesell Calumet, Iowa

DUROC BOARS
Sired by Style Blender, 1948 Grand Champion and TRANSMITTER, the great $1,000 Vaske boar. These are the thickest and growthiest Duroc boars you can find. Immuned—Guaranteed $75-$125. Come or phone collect.
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Fairbank, Iowa

20 DUROC BOARS 20
Sired by Red Leader and out of Low Set dams. Real herd prospects. Plenty of width and good ham. Reasonable.
NICK N. KIRSCH CARROLL, IOWA

DUROC BOARS
50 extra choice registered boars, smooth, deep, heavy-hammed. These are the same high quality that have been produced for years by this pioneer herd. New blood for old customers.
SAM ROBERTS & SONS JEFFERSON, IOWA

DUROC BOARS AND GILTS
Well grown, plenty of stretch, good colors, a large number to select from. Sired by Fancy Premier, Highline Diamond, and Proud King. Private sale. Come or write.
DOWIL SMIT HULL, IOWA

Livestock News

The National Shorthorn Sale, at Kansas City, Mo., October 19, attracted breeders from a wide area of the United States and Canada. A top of $3,350 was paid by Hi Ho Farms, Phoenix, Md., for the champion female, Elbrlaw Augusta 5th, from the P. F. Law herd, Weston, Ont.

Augusta Queen 8th, from the B. Hollis Hanson herd, Connersville, Ind., sold for $1,500 to D. W. Bishop, Gashland, Mo. Princess Royal C., from the herd of Clausen Bros., Spencer, Iowa, went at $1,025 to Lawrence McCue, Petersen, Iowa.

Top bull was Imp. Calrossie Reputation, consigned by Mathers Bros., Mason City, Ill., and sold to John Scherding, Petersburg, Ill., for $1,700. Lothian Swan, from the herd of W. L. McCollister, Dalroy, Alta., sold for $1,475 to Jessie and Willard Sumption, Frederick, S. D. Edellyn Royal Leader 107th, an entry of Edellyn Farm, Wilson, Ill., sold for $1,475 to J. L. Harshman, Humboldt, Neb. Promoter's Command, the show's reserve champion, consigned by B. Hollis Hanson, sold for $1,200 to C. E. Stewart, Rose Hill, Iowa.

Auctioneers J. E. Halsey, Hamilton James and C. D. Swaffer sold the 68 lots for a general average of $651. The 24 bulls averaged $775, the 44 females $583.

The Creston Hereford Breeders Association's annual sale at Orient, Iowa, October 13, reached a $470 top on two bulls. Anxious Domino 2d, consigned by R. C. Mack, Truro, Iowa, went to Davis & White, who also paid the top price for Duchess Vickie.

Top cow was Lady Domino D., also selling to Davis & White. Auctioneers were Fred Chandler and Henry Howe.

DUROC JERSEYS

DUROC FALL BOARS
Choice, purebred, by MR. BLUE PRINT. Real bargains. Spring boars and gilts by MR. BLUE PRINT, E. T.'s SUCCESS and others. Size, smoothness and feeding quality.
E. T. GARTON & SON MARATHON, IOWA

DUROC SPRING BOARS
Tops from 200 head, thick easy-feeding type, that finish at any age and grow big. Have bred this kind 30 years. Priced reasonable. Write or visit herd.
N. W. TOPF & SONS SALIX, IOWA

DUROC BOARS
Well grown, of desirable type with feeding quality and of dark red color. Sired by National Champion of 1947, and others. Cholera immune. Guaranteed breeders. Priced reasonable. 4 miles east.
HARTLE BROS. R. 4, OWATONNA, MINN.

DUROC
BOARS AND GILTS
Well-grown, good color and best blood lines, the kind you will like. Call and see them or write.
A. L. DAHM & SON EARLY, IOWA

DUROC BOARS
A splendid lot of big rugged well bred boars. If you want a boar we have them.
COME OR WRITE
CAMERON BROS. HERMAN, NEBR.

DUROC BOARS AND GILTS
40 big rugged boars. Also 40 very choice gilts sired by KAYWARD CHIEFTAIN. Up to 300 lbs. Cholera immune. Farm 2 miles south and one mile east. Priced to sell.
VINCENT DRUMMY RYAN, IOWA

40 — DUROC BOARS — 40
We are now offering 40 very choice boars, the tops from our herd. Breeding and quality unsurpassed. Immune. Visitors welcome.
REICHARDT BROS. CORNING, IOWA

40 DUROC BOARS
Choice, well-grown, with plenty of stretch, heavy hams. Have bred this kind for 26 years. They will please. Call or write. Located on U. S. No. 30.
FRED HATCH SCRANTON, IOWA

DUROC BOARS
Good purebred lengthy individuals, dark red color, deep bodied, good bone from P.R. and Ton litters. Cholera immuned, weighing 300 lbs. Highway 136, 3 miles north of Dyersville.
GREGOR F. VASKE DYERSVILLE, IOWA

HAMPSHIRES

Struve's Hampshire Boars
65 big thick, rugged spring boars by TOP RINGER and FAULTLESS WONDER, suitable for Farmers and Breeders. Priced to sell.
ROY A. STRUVE MANNING, IOWA

HAMPSHIRE BOARS
Large, rugged boars sired by the 1948 Spencer Champion, Hi-Hope Model Boy, The Pattern, and a top litter by Mischief Model. Come early and get your pick. Priced to sell.
ALBERT J. LARSON AYRSHIRE, IOWA

REGISTERED
HAMPSHIRE BOARS
A choice offering sired by Queens Prairie Boy, a son of Gold Streak. Outstanding for type and production. Write or visit
BYRON C. WENZINGER, LAWRENCE, NEBR.

CHOICE HAMPSHIRE BOARS
Well grown and popular blood lines. These are the pick of our large spring crop. The kind the breeders and farmers like. Write or visit the farm. Immune.
PHILLIP JOHNSTON & SONS, CASTANA, IA.

HAMPSHIRE BOARS AND GILTS
Choice purebred boars and gilts by NEW BOUNCE, 1st at Iowa state sale. Brothers and sisters of A NEW BOUNCE, Junior and grand champion All-Iowa Fair. Real type, rugged, with quality. Reasonable.
CLARENCE J. SUEPPEL & SON, SOLON, IOWA

HAMPSHIRE BOARS
Choice extra large, well-grown pigs, out of big litters, popular breeding. Farm 1 mile east of Randall.
ARLEN O. HOUGHLAND, STORY CITY, IOWA

BUY U. S. SAVINGS BONDS NOW

FEED BOLSON FEED See the Difference!

HAMPSHIRES

HAMPSHIRE BOARS
"THE USEFUL KIND"
Choice well-grown boars, with type and quality. Good breeding. They will please. REASONABLE. Farm on Highway No. 34, southwest of town.
J. HOWARD GIBSON, Box 413, CRESTON, IA.

MINNESOTA NO. 1 HOGS

Minnesota No. 1

Boars of serviceable age. Also bred sows and gilts for spring farrow. Registered. R. O. P. litters, weights. Immune. Farm on No. 16 southern Minnesota.
HEMPSTEAD & SON, HOUSTON, MINNESOTA

MINNESOTA NO. 1 AND 2
Top spring boars and a few proven yearlings. Also open gilts, selected from our large herd. Get your start from large litters, and faster gains on less feed. Farm 7 miles southwest Cedar Rapids, 2 miles southeast of Fairfax.
WILLIAMS BROS. FAIRFAX, IOWA

MINNESOTA NO. 2 BOARS
Registered boars April and May farrow. Also a few May gilts. Immune. REASONABLE.
GORDON ANDERSON FAIRFAX, MINN.

MINNESOTA NO. 1—INBREDS
Choice Registered Boars ready for service. Also weanling pigs, either sex. Immune. Large average litters. "Our 1948 Spring and Fall litters weighed 230 lbs. and 240 lbs. at 163 days" and topped MARKET each time. You will like the cross.
J. B. MACKOY FARRAGUT, IOWA

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Lucie & Slater
INBRED and HYBRID BOARS
Leaner carcasses, faster gains with less feed. Use on your sows. We can supply complete boar rotation. Litter tested stock. Order your LUCIE & SLATER boar NOW for FREE DELIVERY.
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Augusta, Illinois

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Bred like and perform like HYBRID corn . . . over 38 different lines will be available to genetically fit your sow herd. Dealership available. Circular FREE.
WILSON HYBRID HOG ASSN., HARLAN, IA

POLAND CHINAS

Top Quality Polands
Offering a grand selection of spring boars and gilts. If you want them rugged, deep bodies, thick hams and heavy bone be sure to see these before you buy. Come early and select the tops. Popular prices. Cholera immune.
LYLE COCKERTON WHITING, IOWA

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Swine
Cross-line Poland China Boars
Dairy Bulls
of the Ayrshire, Brown Swiss, Guernsey, Holstein and Jersey Breeds
ANIMAL HUSBANDRY DEPARTMENT
Iowa State College Ames, Iowa

HILL BROOK FARM
POLAND CHINA BOARS
This herd has the benefit of 40 years of breeding experience, for size, easy-feeding quality and breeding. They are second to none. 50 head of March farrowed boars, priced to sell. We want satisfied customers and deal accordingly.
OTTO F. SCHRUNK & SONS
Mapleton, Iowa

POLAND BOARS
30 choice well grown boars, rich in breeding. Good type and quality.
C. W. CREES BAYARD, IOWA

POLAND CHINA BOARS
Choice registered boars, top quality, good breeding, excellent type and merit. REASONABLE. Farm 1½ miles east.
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POLAND CHINA BOARS
Now offering choice spring boars sired by Flavor Blend. Good type and breeding. They will please you. Immune.
NICK N. KIRSCH CARROLL, IOWA

Manderscheid's Polands
20 Spring Boars, 1 Fall Boar, 30 Choice Open and Bred Gilts. With size and quality. Immune. The right kind priced to sell. Come, phone or write.
VINCENT MANDERSCHEID Maquoketa, Iowa

SPOTTED POLAND CHINAS

Notz's Spotted Polands
Choice boars we know will please you. Sired by Monjuna, Oh My and Twenty Grand. They are the right kind, the price is right.
WM. O. NOTZ & SON CRESTON, IOWA

BOARS
Sired by Majestic. New blood for old customers.
A. J. ANDERSON & SONS
1½ miles northeast, Kellogg, Iowa

SPOTTED POLANDS
Choice registered spring boars sired by RITE BALANCE and VICTORY BOND, two great breeding boars and from very prolific dams. Priced reasonable. Guaranteed. Farm 4 miles north.
W. E. BRENTNALL & SON PRESCOTT, IOWA

— OUR ADS ARE NEWS —

Landrace Boars
New-Line strain—Well grown. Not fat, very active—ready for immediate duty, color white. These pigs are our rapid gaining strain. Hogs at W. R. Newlin, Johnston, Iowa, and John Jacobs, Elkhart, Polk County, Iowa. Crystal Violet vaccinated.
J. J. NEWLIN
Polk County Johnston, Iowa

SPOTTED POLAND CHINAS

SPOTTED POLANDS
Choice Boars and Gilts by MAJESTIC and COMPACT LAD. They are tops. Ask the breeders who have them.
EDMOND M. STONE CHARITON, IOWA

SPOTTED POLAND BOARS
Choice purebreds including 1st senior boar pig and 3rd junior pig at Spencer. Also fall boars. Plenty of new blood for old customers.
ROBERT EDDIE & SONS, STORM LAKE, IOWA

REG. SPOTTED POLANDS
Big, heavy boned, well developed fall and spring boars. Will sell NATIONAL TOPIC and THE MAJOR. These herd boars are outstanding. Unsurpassed in quality with extremely large bone.
PETER WITT KEYSTONE, IOWA

SPOTTED POLAND CHINA
CHOICE BOARS AND GILTS
Sired by Rocker Plus, Miller's Prize and Showcase. Also new blood for old customers. Large, well grown of the right type. Farm northwest edge of Clarion.
MORRIS MILLER CLARION, IOWA

TAMWORTHS

TAMWORTHS
and
YORKSHIRES
BRED GILTS . . .
OPEN GILTS . . .
and BOARS
DWAINE CLARK COLFAX, IOWA

PUREBRED TAMWORTHS
Prize winning blood lines. Bred and showed many top winners at Iowa and Illinois State Fairs. 4th place carcass at National Barrow Show out of 50 hogs of all breeds. Was highest dressing hog from Iowa.
J. H. JONES
Ainsworth, Iowa

TAMWORTH
BOARS AND GILTS
Choice boars and gilts with good hams and deep sides, easy feeders. The type you are looking for. Immune. Farm 4½ miles west.
PROPST BROS. R. 3, IOWA CITY, IOWA

TAMWORTH HOGS
MORE MEAT—LESS LARD
Choice boars and gilts; also some fine fall pigs, unrelated trio. Also excellent CHEVIOT Sheep, Rams and Ewes. Reasonable.
Golden Rod Stock Farm, R. 1, Davenport, Iowa

GOLDEN TAMWORTHS
PRIZE BREEDING. Folder Ready.
DO-WELL FARMS
First National Bank Bldg. Champaign, Illinois

YORKSHIRES

YORKSHIRES
Boars—some gilts. Sired by THE JOKER, a worthy son of Pine-Grove-Hit-the-Jackpot. World's Champion. Also about 35 fall pigs. All purebred.
HENRY ZOBEL
Mt. Auburn, Iowa

YORKSHIRE HOGS
Registered Breeding Stock of all ages for sale.
PORTERS YORKSHIRE FARM
ELDRIDGE, IOWA
8 miles north of Davenport

PRINCE EDWARD ISLAND
YORKSHIRES
Choice breeding stock for sale at all times. Write Now.
DR. W. J. HULS, 602 E. 15th, DAVENPORT, IA.

YORKSHIRE HOGS
Champion carcass over all breeders 1948 National Barrow Show. Our herd won more Championships and firsts at Illinois, Ohio and Maryland State Fairs than all others combined. Write for illustrated circular.
YALEHURST YORKSHIRE FARM, Peoria, Ill.

PUREBRED YORKSHIRES
Canadian and local breeding. Sired by 4 great boars. Have 9.9 averaged saved per litter. Outstanding boars and gilts. Reasonable. Farm 1½ mile south.
MILO ZACH ROWLEY, IOWA

YORKSHIRE BOARS
Double treated. The Premium Bacon Hog. I have raised Yorkshires since 1903.
LARGE LITTERS
WM. ZAHS R. 2, RIVERSIDE, IOWA

HORSES

DRAFT HORSE BREEDERS SALE
Illinois State Fairgrounds, Springfield, Illinois, Nov. 12, 1949, 11:00 sharp. Belgian, Percheron Stallions and Mare Geldings suitable for pulling horses or six-horse hitches. Several good Jacks. Several good chore teams.
REX COLMAN, Sale Mgr. VERONA, ILL.

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HAMPSHIRE RAMS
Choice quality Hampshire Rams, Yearling and Ram lambs. Best of breeding. Reasonable. Act Now. Phone 901.
M. O. TJERNAGEL STORY CITY, IOWA

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CRANDELL'S PRIZE STOCK FARMS
ITHACA, MICH.

Don't let your old sows and culls set the price on these — — —

Chicago sets the price!

It is to your advantage to send **all** of your hogs to Chicago—not just the old sows and culls. By selling your most desirable types and weights locally, you allow the inferior hogs you send to Chicago to depreciate the price you should get for your good ones. Send **all** of your hogs to Chicago, the great price-setting market, so that your commission man can sell them at their true value.

Two-thirds of all livestock are consumed east of the Mississippi, yet two-thirds are produced west of the River. Chicago is, therefore, the natural gateway. Ship to Chicago to **compel** buyers to compete for your hogs at the central market.

The Chicago Market offers:

Competitive Buying

More buyers (almost 100) to compete for hogs than on any other market. Your selling here compels their competition.

- It's the price-setting hog market for the country. In a representative year 60 per cent of the market days prices are higher or steady with the market of the day before; and on 75 per cent of the market days they are higher, steady or off less than 1 per cent.
- All stock bought is paid for the same day.
- Bonded selling agencies that match the buyer's skill.

Modernized Marketing Facilities

- A network of 22 railroads—Remember, the all important eastern market is reached principally by railroads.
- Unsurpassed truck and trucker conveniences.
- Clean pens and quarters for stock comfort.
- Livestock handlers who give stock the best care, reducing shrinkage to a minimum.
- Tested scales, always accurate.

A charge of 1.6 per cent (September basis) covers the cost of selling in the Chicago market where all hog values are established.

SHIP TO THE CHICAGO UNION STOCK YARD

Where You Get the High Dollar Through the Experienced Selling Service Your Commission Man Provides and the Largest Number of Buyers at Any Market in the World.

A PRODUCTION SALE FOR

W. P. LORENZEN, Pilot Mound, Ia.

In Comfortable Sale Pavilion

Ogden, Iowa, Friday, December 2

12 GOOD BULLS
48 WONDERFUL FEMALES

The Lorenzen herd for 33 years has maintained one of Iowa's best herds, the Farmer-Breeder type SHORTHORNS. The bulls are senior and Junior bull calves by **KLAYMOR GOVERNOR** by Klaymor Camouflage out of Dams by **BROWNDALE CHIEF** and **BROWNDALE BOOSTER**, half brothers to **SUNRAY**, International grand champion. 10 cows with calves at foot, first calf heifers. Mostly by **KELBURN SATISFACTION** by MOUNT BANKER (Imp.), Perth reserve champion, and sire of International grand champion. 25 bred heifers by **GOLDMASTER**, a son of Goldfinder's Masterpiece by the $7,000 Supreme Goldfinder. Many are mated to **KELBURN SATISFACTION**. 13 attractive open heifers. 4 splendid 4-H Club Calves. All sell fully guaranteed. All **T.B.** and **BANGS** tested. COME. Ask for **FREE** illustrated catalog. Kindly mention this publication. Address

MERVIN F. AEGERTER, Sale Mgr., SEWARD, NEBRASKA

Auctioneer, J. E. Halsey M. T. White, Fieldman

Climax of the Year—
1949 International Shorthorn Congress Sale

Stock Yards Pavilion, Chicago

Wed., Nov. 30, 1949

9:00 A. M.

50 BULLS — 50 FEMALES

This great offering will feature the year's most outstanding winners in the greatest show-ring performance ever recorded by Shorthorns.

You Buy the Best When You Buy in the Purple!

Cattle to be judged Sunday morning, November 27th.

Don't miss this greatest 1949 International Congress Shorthorn Sale. Write for illustrated catalog.

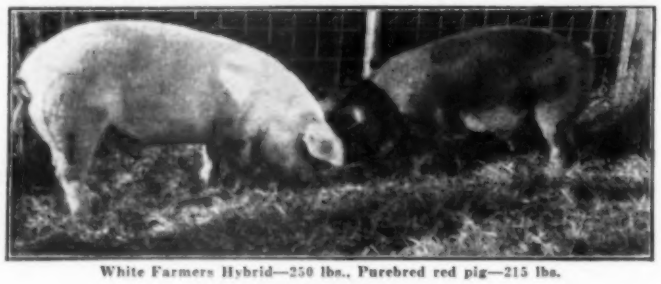
Make hotel reservations through this office at once. Congress Hotel, headquarters.

Ask about our Free Freight Offer.

AMERICAN SHORTHORN BREEDERS' ASSOCIATION

Dept. WF Union Stock Yards Chicago 9, Illinois

FARMERS HYBRID HOGS GROW FASTER



White Farmers Hybrid—250 lbs., Purebred red pig—215 lbs.

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SAME AGE
SAME FEED
SAME CARE

Farmers Hybrid Hogs Gain Faster!
Proven on Thousands of Iowa Farms!

It will pay you to use a Farmers Hybrid Boar. See FARMERS local sales service man or write—

FARMERS HYBRID HOGS
Hampton, Iowa

"NATURALLY HORNLESS—a Quality to be Desired"

You can buy the best

POLLED SHORTHORNS

NATURALLY HORNLESS

at the INTERNATIONAL SALE, Stock Yards, Chicago, 9:00 A. M.
THURSDAY, DECEMBER 1, 1949

20 BULLS — 40 FEMALES

Every outstanding show herd of Polled Shorthorns at the big fairs in the last few years will be represented in this hard-to-surpass offering of 60 head from the nation's leading herds. Nowhere else will you find quite the wide selection with so many pleasing combinations of outstanding blood combined with superb individuality and modern type.

Make hotel reservations through this office, Congress Hotel, headquarters. Write for catalog. Ask about our Free Freight Offer.

POLLED SHORTHORN SOCIETY

Dept. WF Union Stock Yards Chicago 9, Illinois

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Farmers who need a good boar or gilt or first class individuals of either sex in draft horses, beef or dairy breeds will find the leading breeders listed in these pages and offering surplus stock. Make our columns your guide when buying.

If you do not find in Wallaces' Farmer and Iowa Homestead what you want to buy, advise us and we will gladly give you names of reliable firms that can take care of your needs.

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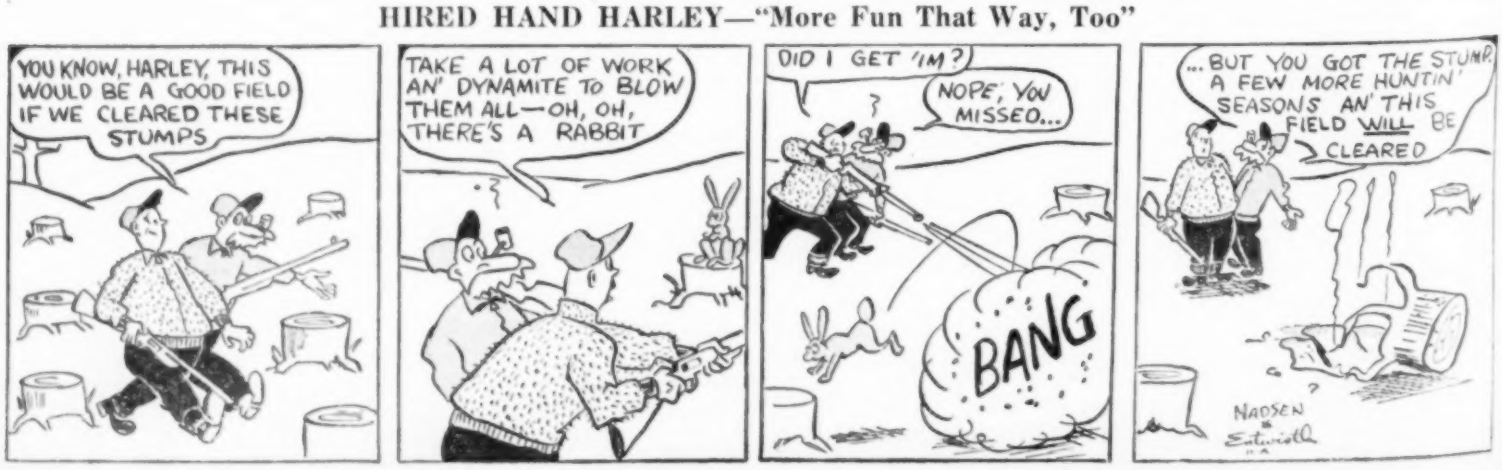


Coming Livestock Sales

ABERDEEN ANGUS

Nov. 7—Dispersion, C. C. Pickrell & Sons, Charlotte, Iowa.
Nov. 14—Archer, Catterson and Evans; sale at Maryville, Mo.; Leo Archer, Mgr., Conception Junction, Mo.
Nov. 16—C. R. Peters and Cecil H. Drake, Winterset, Iowa; Aberdeen Angus Journal, Mgrs., Winterset, Iowa.
Nov. 26—Dan and Earl Schobert, Papillion, Neb.; sale at Sioux City, Iowa.
Dec. 8—Dispersion Sale, E. L. Osborn, Belford, Iowa; sale at the John Warin Pavilion, Maloy, Iowa.
Jan. 5—East-Central Iowa Hereford Association Show and Sale, Davenport, Iowa; Roy Wise, Mgr., Donahue, Iowa.
Jan. 16—Orient Hereford sale, Orient, Iowa; Harold Billion, Mgr., Greenfield, Iowa.
Mar. 6-7—Iowa State Angus Show and Sale, Cedar Rapids, Iowa; Garold D. Parks, Secy., Ames, Iowa.
Mar. 12—Interstate Breeders Show and Sale, Sioux City, Iowa; P. K. Pratt, Secy., Walnut, Iowa.

HEREFORDS

Nov. 12—John Block & Sons, Worthington, Minn.
Nov. 14—A. J. Minish & Sons, Tama Herefords, Dysart, Iowa; sale at Marshalltown, Iowa.
Nov. 25—Circle A Hereford Farm, Morris, Ill.
Nov. 26—C. A. Iverson, Ames, Iowa; sale at farm, Ames, Iowa.
Nov. 29—International Sale, Chicago, Ill.
Dec. 17—Bill Ellerbrock, Laurel, Iowa; sale at Marshalltown, Iowa.
Jan. 23-24—Iowa State Show and Sale, Cedar Rapids, Iowa; J. C. Holbert, Mgr., Box 492, Washington, Iowa.
Feb. 23—John Wisdom, Des Moines, Iowa.

POLLED HEREFORDS

Oct. 26—Hervale Farms, Leland W. Herman, Wayne, Neb.
Dec. 1—International Congress Sale, Chicago, Sale Des Moines, Iowa; Leigh R. Curran, Secy., Mason City, Iowa.

SHORTHORNS

Nov. 12—Central States Sale, Oskaloosa, Iowa; C. E. Stewart, Mgr., Rose Hill, Iowa.
Nov. 30—International Shorthorn Congress Sale, Chicago, Ill.
Dec. 2—W. P. Lorenzen, Pilot Mound, Iowa; sale at Ogden, Iowa; Merv. Aegerter, Sale Mgr., Seward, Neb.
Jan. 10—Tri-State Breeders Show and Sale, Sibley, Iowa; Albert Hamann, Mgr., Rock Rapids, Iowa.
Feb. 13—35th Annual Spring Show and Sale, Omaha, Neb.; Merv F. Aegerter, Mgr., Seward, Neb.
Feb. 27—Southwest Iowa Breeders, Red Oak, Iowa; Malcolm Lomas, Secy.
Mar. 3—Illinois State Sale, Normal, Ill.; Hal Longley, Mgr., 16 S. Locust St., Aurora, Ill.
Mar. 6-7—Interstate Show and Sale, Sioux City, Iowa; F. E. Jackson, Secy., Hurley, S. D.
Mar. 13-14—Iowa Royal Show and Sale, Des Moines, Iowa, Albert Hamann, Mgr., Rock Rapids, Iowa.
Mar. 17—Breeders Sale, Abingdon, Ill.; Hal Longley, Mgr., 16 S. Locust St., Aurora, Ill.
Mar. 27—Northwest Missouri Breeders, Maryville, Mo.; Jim Meyer, Mgr.
Mar. 28—Sioux Empire Club, Sioux Falls, S. D.; Al Halverson, Mgr.

POLLED SHORTHORNS

Nov. 23—Smith & Talbott (Dispersion), Lock Springs, Mo.; sale at Chillicothe, Mo.; Merv. Aegerter, Mgr., Seward, Neb.
Dec. 5-6—Iowa Polled Hereford Assn. Show and Sale.
Feb. 16—35th Annual Spring Show and Sale, Omaha, Neb.; Merv F. Aegerter, Mgr., Seward, Neb.
Mar. 10—North Iowa Sale, Spencer, Iowa; Earl S. Girton, Sale Mgr., Box 282, Marshalltown, Iowa.
Mar. 15—Hawkeye Downs Sale, Cedar Rapids, Iowa; Earl S. Girton, Mgr., Box 282, Marshalltown, Iowa.

RED POLLS

Nov. 22—Iowa, Illinois and Wisconsin Breeders, Normal, Ill.; Burch Lee, Secy., Hartsburg, Ill.

MILKING SHORTHORNS

Nov. 26—Illinois Northwest District Breeders, Moline, Ill.; Harold Martin, Secy., Erie, Ill.

DAIRY CATTLE

Nov. 10—Western Wisconsin Guernseys, West Salem, Wis.; Vilas E. Young, Secy.
Nov. 11—La Crosse County Semi-Annual Guernsey Sale, West Salem, Wis.; Vilas E. Young, Secy.
Nov. 11—D. L. Armann, Polk City, Iowa; Ivan N. Gates, Sale Mgr., West Liberty, Iowa.
Nov. 12—Holsteins, Tilney-Hiatt, Lewisville, Minn.; sale at Truman, Minn.
Nov. 19—Guernsey Dispersal, Victor E. Geist, 543 G. R. Melin, Sale Mgr., Minneapolis, Minn.
Dec. 3—"Parade of Holstein Bulls" Show and Sale, Waterloo, Iowa; Claude E. Wylam, Mgr., Waverly, Iowa.

BERKSHIRES

Nov. 8—Iowa Berkshire Breeders, Spencer, Iowa; Alex Conover, Sale Mgr., Holstein, Iowa.

DUROC JERSEYS

Nov. 8—Juhl Bros., Luverne, Minn.

POLAND CHINAS

Nov. 10—Cal Friday, Leon, Iowa; sale at Orient, Iowa.

SPOTTED POLAND CHINAS

Nov. 5—Night Sale, Greenlee & Wall, Guthrie Center, Iowa.
Nov. 9—Arthur Bailey & Sons, West Liberty, Iowa.
Nov. 10—Night Sale, R. A. Faber & Sons, Monroe, Iowa.

SHEEP

Dec. 2—North American Suffolk Breeders, Oskaloosa, Iowa.
Dec. 3—International Hampshire Breeders, Oskaloosa, Iowa.
Dec. 6—Iowa Corriedale Sale, Bloomfield, Iowa; Thad Smith, Mgr., Central, Iowa.

DRAFT HORSES

Nov. 12—Draft Horse Sale, Springfield, Ill.; Rex Odell, Sale Mgr., Colman, Ill.

LIVESTOCK FIELDMEN

M. T. WHITE, 604 No. Fortieth St., Omaha, Nebraska. Phone Walnut 1056.
J. E. HALSEY, 1912 Grand Ave., Des Moines.
M. W. HONEY, Box 740, Storm Lake, Iowa; Phone 970-R.

We publish the FIRST and THIRD Saturdays of every month. Copy for livestock advertising must reach our office FIFTEEN days before date of issue.

Livestock News

Annual fall classic of the Iowa Holstein Breeders Association was held at the Dairy Cattle Congress grounds in Waterloo, October 17, the bred two-year-old heifers sold for an average of $427. Top heifer, consigned by Elmer Behneman, Arcadia, Iowa, sold to T. T. Kies, Story City, Iowa, for $500.

Top bull was an 11-month-old son of Pabst Roameer, consigned by Arthur Gerlach, St. Ansgar, Iowa. He sold for $550 to Charles Manson, of St. Ansgar. A five-year-old cow topped the female sale at $525. She was consigned by Herbert Malven, Maynard, Iowa, and sold to Allan Robertson, Walcott, Iowa.

Nine bulls averaged $263, and 32 females averaged $412. All cattle sold to Iowa buyers except three head sold for export to Telaviv, Israel.

Around the Farm AND IN THE Feed Lot

by E. A. KELLOWAY

THOSE DEVASTATING winds October 10 certainly struck Iowa farmers a hard blow. Corn borer-weakened stalks were unable to stand the 60 to 90 mile an hour gales, thus adding tremendously to this year's harvesting problems. There was too much corn on the ground to pass it up, so many corn gleaning "bees" were arranged, and many backaches were reported. Best picker-uppers of all, of course, are the four-footed ones—cattle and hogs turned in fields after harvesting.

RURAL YOUNG PEOPLE in Floyd county found an effective way to drive home the importance of farm safety during this year's corn picking season. They set up a display in the Charles City downtown area in which a dummy was placed so that it appeared its leg was caught in the corn picker rollers. Use of red paint made the display even more realistic. The slogan, "Use Your Head—Save Your Arm," was also there.

COLD WEATHER is on the way. It is very important to have comfortable and well ventilated quarters for fall pigs. Pigs started off right in the fall usually go through the winter in fine shape and are mighty valuable assets in the spring. Walnut Grove Minerals can help you a lot in carrying these pigs to market. Among our many Walnut Grove users in Decatur county, Iowa, we find Elliott Bros., Mervin Naylor, Fred L. & C. R. Young, brothers on two farms, Lloyd Coffin, Raymond and John McMorris, Lester Quigley and George Martin. Our representative in this territory is Orlo Harger, of Decatur.

CONGRATULATIONS to another fine group of Future Farmers! At their 22nd annual national FFA convention in Kansas City these Iowa boys received the coveted American Farmer Degree: Douglas Behrens, Strawberry Point; Leland Denburger, Oskaloosa; Robert Evans, Brooklyn; Donald Henik, Lisbon; Donald Jorgensen, Lake City, and Richard Richardson, Mount Ayr. In addition, Marvin Gummersheimer, of near Waterloo, was named winner of the first national FFA soil conservation award and Larry Siddall, of Laurens, won second in the national FFA speaking contest.

CLEAN LAYING HOUSES help mean cleaner eggs, W. R. Whitfield, extension poultryman at Iowa State College, suggests using the deep litter system because it stays dry and clean longer. Light, absorbent materials are best. Ground corn cobs, shavings or straw can all serve the purpose. Stirring up the deep litter helps keep the hens dry and clean. Of course, clean nests also help assure cleaner, more profitable eggs.

A NEBRASKA baby beef set some kind of an auction record recently, and in the process helped the Omaha Community Chest to the tune of $1,785. The calf was sold 75 different times, and each time he went on the block the proceeds were turned over to the Chest. The auction took place in the lobby of the Omaha Livestock Exchange Building. Seems to us a good name for the Nebraska calf would be "Chesty." Anyway, if he had a chest, he certainly could have stuck it out proudly for the contribution made to worthy organizations.

IOWA'S FALL PIG numbers apparently will not be as large as the 10 per cent increase earlier expected. It now looks like the number of fall pigs will reach about 260,000 head, slightly above the 1948 figures but considerably below the 1943 record of 351,000. Spring pig numbers also were considerably under early estimates, and up until the time of the "big blow" were being marketed at lighter weights. However, the corn gleaning work being done by hogs now will mean some heavier and lardier hogs hitting the market in November and December.

WALNUT GROVE Products Company has manufactured minerals for cattle, hogs, sheep and poultry for 30 years. Our business has steadily increased throughout all these years. This is due in large measure to the fact that our minerals produce results in feedyards over the Corn Belt. Among our many customers in Polk county, Iowa, for instance are Floyd Hirsch, Lawrence & Seward Larson, brothers on two farms, Tom & Albert Kockheiser, brothers on two farms, and Noble Tweedt. These customers are serviced by our representative, Wm. H. McNabb, of Maxwell, Iowa.

AS MIDWESTERN FARMERS were finishing their soybean harvest this fall, they heard a report from George Strayer, of Hudson, Iowa, secretary of the American Soybean Association, warning that there is danger of making Europe the dumping ground for off-grade American soybeans. Strayer says Europeans consider U. S. beans their best and cheapest source of edible oil, but that unscrupulous exporters, who unload poor beans on European processors, are giving all American soybeans a "black eye."

A LOT of new and interesting gadgets will be seen at the National Farm Show in Chicago this month. Vacuum unloaders, heated tractor seats, fancy rotary hoes and dozens of spraying and irrigation gadgets will be there. It seems there's a machine made now for about anything and everything. Only trouble is they all cost money and they've all got to be paid for.

GILTS BEING PREPARED now to produce 1950 spring pigs should receive special care. Everyone knows the condition of these gilts is very important at breeding time. Walnut Grove Mineral can play a big part in helping to put these gilts in thrifty condition. In Des Moines county, Iowa, where Walnut Grove is well known, among our many customers who use our mineral are the C & C Ranch, Howard Smith, Elta Archer, Theo. Blake, Riley Bros. & Voos, Ray Breder & Son, and Clell Breder & Bros. This business is handled for us by our long-time representative in that territory, Thede Boysen, of Mediapolis.

DEPARTMENT OF AGRICULTURE statisticians recently released some interesting figures on city family spending. They found food takes about a third of the family's weekly income, and that about 2¼ cents out of every food dollar goes for meat. Also that bacon is more widely used than any other meat item, with beef "hamburgers" next in line. Question now is, with all the strikes we've had this fall, whether the pay envelopes will provide for all the meat we can produce.

Walnut Grove Minerals

SOLD ONLY BY *DEPENDABLE REPRESENTATIVES*
★ HOME OFFICE ATLANTIC, IOWA

Livestock News

A general average of $430 on 64 lots was made at the Interstate Angus fall show and sale, managed by P. K. Pratt, at Sioux City, Iowa, October 10. With W. W. Derrick making the awards, bull grand championship went to Enright A. 4th from Layton Farm, Walnut, Iowa. The winner sold at $1,000 to Glenn Barnes, Kilgore, Neb.

Reserve champion bull was Erica of Page 51st, consigned by Perry Upton and selling to George Schuller, Claremont, S. D., for $1,000. Emperor of Donneside 18th, shown by Ben G. Studer, Wesley, Iowa, sold for $725 to Howard Pitzer, Erickson, Neb.

Grand champion female was Blackcap Lassie S. 36th, shown by H. W. Sawyer. She went for $560 to A. A. Mugge, Spencer, Iowa. George & Duane Clark's reserve champion, Elana C. 19th, sold to Robert Mugge, Spencer, at $450. Top female price was the $750 paid by Gail Drahota, Monroe, Neb., for Queen J. 33d, owned by Enoch & Bob Johnson, Galva, Iowa.

The 39 bulls averaged $465, with 25 females at $377 each. They sold to buyers in Iowa, Illinois, South Dakota, Nebraska, Minnesota and Kansas.

R. L. Flamme's Cloverdale Monarch topped the bull sales in the Iowa Polled Shorthorn show and sale, at Des Moines, Iowa, October 5. He sold at $1,225 to George Smith, of Thornton, Iowa.

The show's champion, Alauna Redeemer, owned by Walter Fennern, sold for $525 to Martin Blass, Sac City, Iowa. Reserve champion bull, Fairview Stamp, a John Vanden Berg entry, sold at $345 to Darrell Noll, Arthur, Iowa. Red Oak Type, from the R. E. Phillips herd, sold for $700 to V. B. Fagin, Lathrop, Mo.

Champion female, and also top female in the sale, was Cloverdale Sarcasm 8th, from the R. L. Flamme herd. She sold at $675 to Sporting Field Farm, of Silver Springs, Md. Collynie Joann, from the George Smith herd at Thornton, was reserve champion and was purchased for $500 by George Smith, of Keokuk, Iowa.

Thirty bulls averaged $347 and 29 females averaged $283, for a 59-lot over-all average of $315. The show was judged by Robert Bell, of Silver Springs, Md. J. E. Halsey was auctioneer.

Marion County Hereford Association held its annual sale at Knoxville, Iowa, October 22, with Walter Brown as sale manager. The 122 lots, including a number of 1948 heifers and bulls, averaged $272.

Rupert Tone Lad 6th, a June, 1948, bull consigned by Perrin Hereford Farm, Chariton, Iowa, topped the bulls. He sold at $600 to R. O. Black & Son, Farnhamville, Iowa. The 38 bulls averaged $243.

A March, 1949, heifer by Heritage Domino, from the herd of Everett Kennedy, Knoxville, sold for $500 to Dicky Miller, Webster, Iowa. Lawrence Goff, Knoxville, paid $580 for a five-year-old cow consigned by H. J. Woody, Reasnor, Iowa. A cow and calf combination topped the female division, selling for $615. The 90 females averaged $385.

All cattle sold to buyers from Iowa except four head. Two went to Illinois, two to Kansas. Auctioneer was Freddie Chandler.

A general average of $315 on 36 lots was made at the combined Shorthorn sale of S. S. Davis & Son, H. E. Whitford & Sons and Fred Rothlisberger & Son, at the Rothlisberger farm, Elgin, Iowa, October 12.

Female top of $410 was paid by Keith James, Stanley, Iowa, for Cedarwood Victoria 2d and heifer calf, from the Rothlisberger herd. Rosemary Rose 2d, consigned by Davis, and mated to Edellyn National Leader, sold to Roy Coleman & Son, Winthrop, Iowa, at $400.

Cedarwood Prince 6th topped the bull sale at $400, going to D. N. Vesperman, Lancaster, Wis. George Pashby, Cedar Falls, Iowa, also paid $400 for Bonnydale Count 4th.

The 29 females averaged $317 and the seven bulls $295. Auctioneer J. E. Halsey sold all lots to Iowa buyers except two, which went to Wisconsin.

A general average of $330 for 76 lots was made in the Abingdon, Ill., annual fall Shorthorn sale, October 7. Managed by Hal Longley and cried by J. E. Halsey, the sale attracted buyers from Iowa, Wisconsin, Illinois, Missouri and Indiana.

Top bull was Reward's Image, from the herd of Gilbert Kardel, of Walcott, Iowa. He sold at $675 to Elmer Krusemark & Sons, Emden, Ill. John Meyer & Son, Greensburg, Ind., paid $650 for Ringwell's Commander.

Top female was Lavender 44th, a Kardel entry, which sold for $600 to John Meyer & Son.

The 27 bulls averaged $353 and the 49 females $318.

An average of $240 was made on 39 calves in the Murray Hereford sale, at Oxford Junction, Iowa, October 8. Sale top was a heifer by Seth Elation, selling to Willis Glenn, Olin, Iowa, at $430. Second top sold for $365 to Mildred Ivey, West Liberty, Iowa.

Top bull brought $335 from Clarence Johnson, Andover, Iowa. Next top brought $330 from R. P. Morse, Wyoming, Iowa. Steve Hart was the auctioneer.

STANDARD

FARM NEWS-GRAPHIC

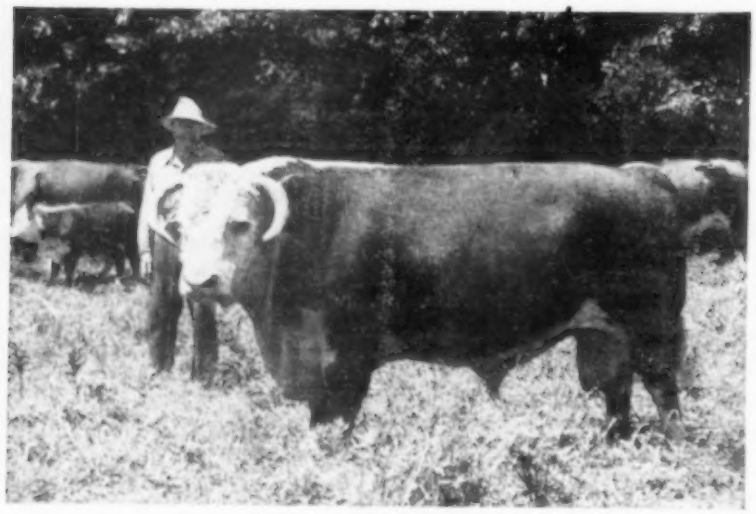
A picture review of successful farming brought to you by the Standard Oil Company

One hundred fifty ribbons have been won during the past sixteen years by Willard Frye of Peoria, Ill., with his Aberdeen Angus cattle. He is shown with three of the breed on which he is a recognized specialist. "Like my black Angus, Permalube Motor Oil is a prize winner," says Mr. Frye, who is a second-generation Standard Oil customer on the family farm.

Gobble, gobble! That is what the 4,500 turkeys do to hundreds of pounds of turkey feed on the farm of Warren Frye, brother of Willard shown on the left with his black Angus cattle. Warren, who is holding one of his many fine birds, is noted as an authority on turkey raising. "I consider myself an authority on fuel, too; that's why I choose Standard Heater Oil," he declared.

Flax champion Alton Barker was caught by the camera in the flax field on his 1,000-acre farm near Fargo, N.D. A sample of his flax won top honors at Chicago's International Grain and Hay Show in 1947, and the reserve championship in 1948. Permalube Motor Oil and Standard Red Crown Gasoline save him time and money in his extensive farming operations, he says.

See saw? You are looking at one made by Norman Heronemus of Decker, Michigan, which can be adjusted horizontally or vertically to saw a standing or fallen tree. His children, Jerry and Sharon, stand by. His father, Peter Heronemus, a long time Standard customer, says Iso-Vis Motor Oil holds its lubricating quality under heavy going.



Sire of champions. This splendid Hereford bull is herd sire on the famous farm of H. Baxter Hall of Clarence, Mo. Stockman Hall stands beside the fine animal. Calves from this farm regularly win prizes in livestock competitions, and Mr. Hall was named state grand champion of feed calf production in 1948. Red Crown Gasoline and other Standard Oil products are used exclusively on this big farm.

Hay chute. Dallas Hawke is seen with the clever disappearing stair and hay chute which he installed in his barn in Sheffield, Ia. When lowered, bales of hay can be slid down quickly at feeding time. Weights help lift it back in place. The chute measures 10 feet long by 3 feet wide. Hay-chute inventor Dallas Hawke is a steady Standard Oil customer, and says that he gets low cost power and the best lubrication by using Standard's products.

Your Standard Oil Man